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WEATHER MAP,

1 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	..	..	..	..
Grafton ..	b	99	66	0
Inverell ..	b	91	60	0
Bourke ..	b	108	75	0
Narrabri..	..	..	..	..
Armidale.	b	83	60	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	c	87	60	0
Cassilis ..	b	98	68	0
Mus'brook	c	92	67	0
Dubbo ..	b	94	75	0
Mudgee ..	c	94	65	0
Maitland..	..	..	..	..
Newcastle	b	81	66	0·03
Orange ..	b	92	54	0
Bathurst..	..	..	..	..
Mt Victoria	b	82	56	0
Forbes ..	b	90	73	0
SYDNEY ..	g	80	68	0·05
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Woll'gong	b	78	66	0
Moss Vale	..	..	..	..
Euston ..	b	97	60	0
Goulburn	c	89	56	0
Yagga ..	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	b	93	61	0
Deniliquin	b	101	55	0
Albury ..	b	105	61	0·06
Bodalla ..	c	87	65	0
Cooma ..	c	89	55	0
Eden	u	79	62	0·02
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 18 Years, for January ..... 43·229.

Total Rainfall from 1 Jan. to 1 January ..... 0·053.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L. Torrens

B No report

G No report

28 29·86 F 91 BO

FINE GENERALLY

PM No report

N 8 29·76 F 73

S 18 29 87 F 72

W No report

No report A 14 30·03 R 69 D

0 29·95 R 81 AA

C No report

CB No rept.

No report M

No report P O

E 14 29·95 F 64

Bar. has fallen about .70

GO No report

No report

No report WP

QC 992 .N49 W4 1878 Jan. — June

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WEATHER MAP,

2 JAN., 1877—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	90	45	0·20
Grafton ..	b	107	68	0
Inverell ..	b	92	60	0
Bourke ..	b	107	74	0
Narrabri ..	b	100	78	0
Armidale .	b	86	62	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	83	70	0
Murr'undi	g	88	61	0
Cassilis ..	b	92	66	0
Mus'brook	g	96	66	0
Dubbo ..	b	94	73	0
Mudgee ..	b	95	64	0
Maitland ..	g	84	71	0
Newcastle	r	79	65	0
Orange ..	b	94	51	0
Bathurst ..	..	..	..	..
Mt Victoria	c	82	50	0
Forbes ..	b	91	69	0
SYDNEY ..	u	79	67	0
Wentw'th.	b	89	60	0
Young ..	..	..	..	..
Wolf'gong	c	78	64	0
Moss Vale	..	..	..	..
Euston ..	b	104	65	0
Goulburn	c	88	56	0
Wagga ..	b	94	67	0
Cape Geo.	c	74	65	0
Queanb'an	b	92	58	0·05
Deniliquin	b	90	55	0
Albury ..	b	93	61	0
Bodalla ..	g	81	60	0
Cooma ..	c	81	56	0·05
Eden	b	80	59	0
Gabo Isld	b	66	59	0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 18 Years, for January .....43·229.
Total Rainfall from 1 Jan. to 2 January .....0·053.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Wind Scale. Miles	STATE of WEATHER
13..Light brze	b—Blue sky
23..Mod. breeze	c—Detached clouds
34..Fresh ,,	d—Drizzling rain
48..Gale	f—Fog
56..Strong gale	g—Gloomy, dark
65..Whole gale	h—Hail
75..Storm	i—Lightning
90..Hurricane	m—Misty, hazy
	n—Frost
	o—Overcast
	p—Passing showers
	q—Squally
	r—Rain
	s—Snow
	t—Thunder
	u—Threatening
	v—Air very clear

R No report

AS No report

L. Torrens

B 18 29·84—87

C 16 29·82—90

28 29·98 R 86 BO

FINE GENERALLY

PM 56 29·71—73

N 12 29·82 R 66 Raining

E 28 29·95 R 69

W 42 30·18—71

0 30·15—69 A 14 30·03 R 63 D

14 30·03 R 77 A A

CB No rept.

C 42 30·04—66

No report 13 30·17—62 M

P O E 42 30·10 R 74

Bar. has risen about ·10

GO 5 29·97—62

8 30·19—60

23 29·97—58 WP

WEATHER MAP,

3 JAN., 1871.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterf'ld	b	72	57	0·10
Grafton ..	c	104	75	0
Inverell ..	c	93	63	0
Bourke ..	b	100	78	0
Narrabri ..	u	102	70	0
Armidale ..	u	85	65	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macq'rie	c	74	65	0·87
Murr'undi	u	85	58	0
Cassilis ..	u	91	65	0
Mus'brook	u	91	63	0
Dubbo ..	b	93	68	0
Mudgee ..	c	93	62	0
Maitland ..	d	81	65	0·04
Newcastle	b	78	63	0·50
Orange ..	b	85	46	0
Bathurst ..	..	..	..	..
Mt Victoria	u	78	47	0
Forbes ..	b	90	67	0
SYDNEY ..	r	74	63	0·10
Wentw'th.	b	94	67	0
Young ..	b	93	52	0
Woll'gong	b	76	59	0
Moss Vale	..	..	..	..
Euston ..	b	96	60	0
Goulburn	u	83	59	0
Wagga ..	b	96	67	0
Cape Geo.	c	71	62	0
Queanb'an	c	90	57	0
Deniliquin	b	93	60	0
Albury ..	b	98	56	0
Bodalla ..	c	80	53	0
Cooma ..	b	72	46	0
Eden ..	b	79	58	0
Gabo Isld	c	78	58	0

PD

3 29·72 — 90

W — E

S

16 29·90 F 55

For example, *reads:* Fine, wind North, 16 miles per hour, Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ · LONG. 10h 4m 15s. · MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·065

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 3 January ..... 0·053.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence River; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90 ..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 13

L. Torrens

B 18 29·96 R 81

C 28 29·92 R 80

28 30·00 R 68 BO

Generally cloudy

PM 56 29·98 R 73

N 14 30·03 R 66

S 20 30·16 R 65

Raining about 20

W 14 30·17 F 66

3 30·16 R 75 A 14 30·22 R 81 D

14 30·21 R 78 AA

C 42 30·25 R 67

CB 18 30·19

18 30·20 68 M

28 30·25 — 65 P

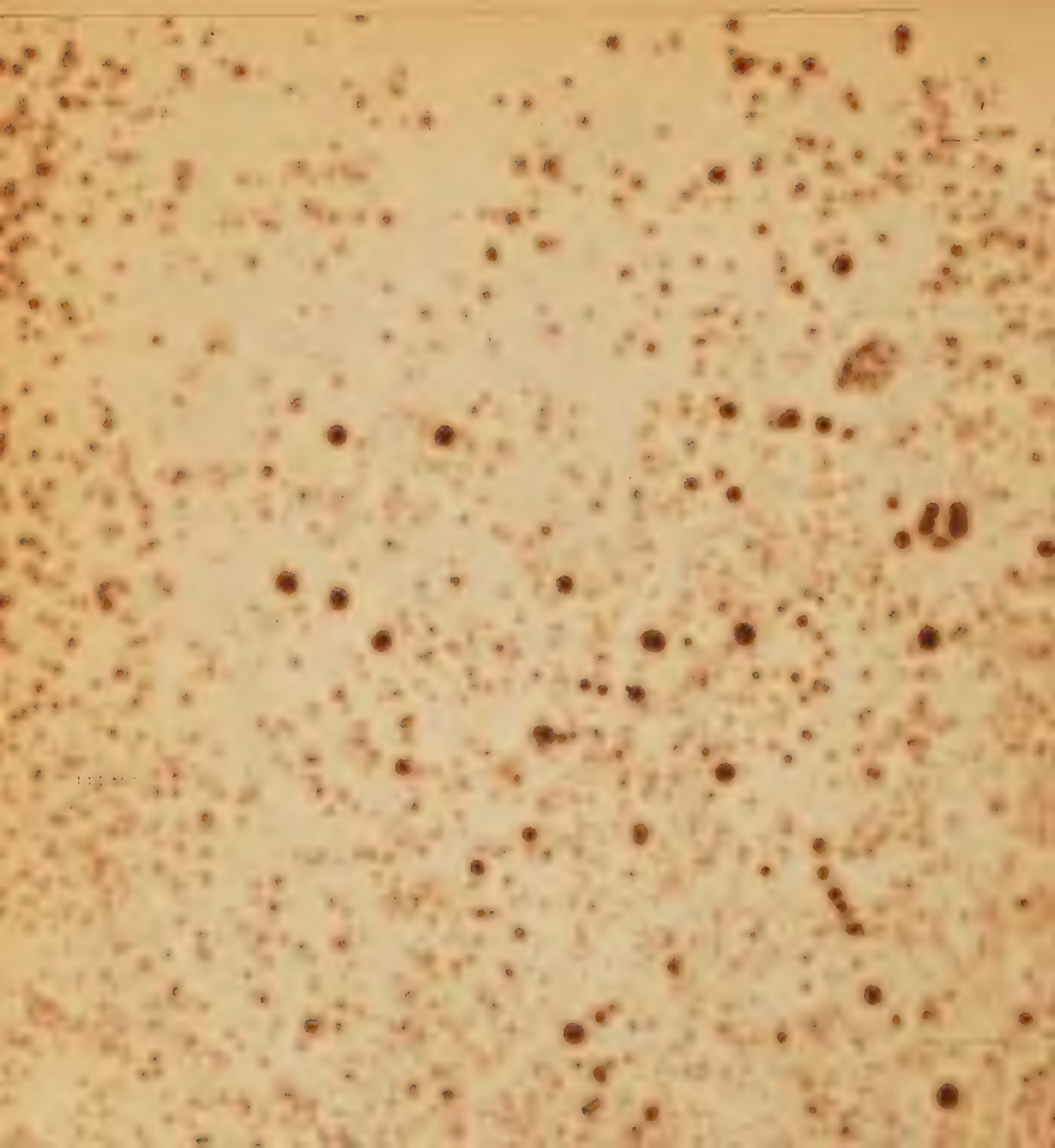
E 14 30·25 R 72

Barrison Bar.

GO 14 30·20 R 71

18 30·23 R 66

34 30·13 R 63 WP



WEATHER MAP,

4 JAN., 1877.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfi'ld	b	76	57	0
Grafton ..	g	95	69	0·60
Inverell ..	b	88	65	0
Bourke ..	b	102	76	0
Narrabri..	c	93	62	0
Armidale.	u	79	62	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	u	74	56	0
Cassilis ..	g	78	63	0
Mus'brook	g	76	60	0
Dubbo ..	b	91	65	0
Mudgee ..	g	86	60	0
Maitland..	d	74	64	0
Newcastle	r	76	65	1·10
Orange ..	b	91	47	0
Bathurst..	b	80	58	0
Mt Victoria	u	60	49	0
Forbes ..	..	87	63	0
Sydney ..	c	72	65	0
Wentw'th.	b	101	67	0
Young ..	b	84	52	0
Woll'gong	b	74	62	0
Moss Vale	..	..	..	..
Euston ..	b	103	67	0
Goulburn	u	79	52	0
Wagga ..	b	91	63	0
Cape Geo.	c	76	64	0
Queanb'an	c	86	51	0
Deniliquin	b	..	68	0
Albury ..	b	100	55	0
Bodalla ..	..	..	..	..
Cooma ..	b	77	38	0
Eden	b	75	01	0
Gabo Isld.	c	74	61	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 4 January ..... 0·154.

EXPLANATION.—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L. Torrens

56 30·16 R 86 BO

Generally cloudy

B 18 29·89 F 82

G 64 29·86 F 70

P M No report

N 11 30·06 R 67

S 18 30 18 R 71

rain

SMOOTH SEA

C 42 30·08 F 65

E 14 30·26 R 68

GO 3 30·19 S 67

34 30·11 F 63 WP

W 14 30·10 F 89

No report A — 30·12 F 78 D

— 30·20 F 77 A A

CB No rept.

34 30·23 F 61 P

13 30·16 F 69 M

34 30·22 F 62

WEATHER MAP,

5 JAN., 187[illegible]–9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

PD

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	p	71	49	0·25
Grafton ..	r	82	..	0
Inverell ..	..	..	..	.
Bourke ..	b	100	75	0
Narrabri ..	g	89	66	0
Armidale ..	b	70	60	0·03
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	.
P. Macquarie	r	74	72	0·51
Murr'undi ..	o	72	57	0
Cassilis ..	b	76	64	0
Mus'brook ..	o	79	62	0
Dubbo ..	b	87	65	0
Mudgee ..	o	86	60	0
Maitland ..	o	70	65	0·23
Newcastle	p	76	63	0·17
Orange ..	c	79	44	0
Bathurst ..	c	80	..	0
Mt Victoria	c	67	50	0
Forbes ..	..	..	..	..
SYDNEY ..	o	72	63	0
Wentw'th.	b	104	62	0
Young ..	g	83	56	0
Woll'gong	b	74	61	0
Moss Vale	..	..	..	..
Euston ..	b	110	62	0
Goulburn	o	74	49	0
Wagga ..	b	86	57	0
Cape Geo.	c	74	65	0
Queanb'an	b	83	54	0
Deniliquin	b	104	64	0
Albury ..	b	101	65	0
Bodalla ..	c	77	52	0
Cooma ..	c	77	42	0
Eden	c	76	60	0
Gabo Isld	b	73	61	0

16 29·90 F 55.

For example, *reads*; Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·035

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 5 January ..... 0·154.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

No report

AS

L. Torrens

42 30·09 F 84 BO

Generally cloudy

B 13 29·84 F 82

C 70 29·82 F 73

PM 42 29 96 — 72

Raining

N 6 30·01 F 66

S 11 30 06 F 72

W 28 30·17 R 71

A 14 30·15 F 75 D

0 30·11 F 78 AA

C 42 30·08 S 66

CB

18 30·20 R 70 M

E 14 30·12 F 69

28 30·33 R 63 P

GO 28 30·07 F 71

Bar. has risen about ·10

8 30·31 R 64

13 30·12 R 63 WP

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP.

7 JAN., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	c	76	50	0
Grafton ..	..	..	..	..
Inverell ..	b	89	54	0
Bourke ..	b	95	72	0
Narrabri..	b	97	85	0
Armidale.	c	77	52	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	76	60	0·19
Murr'undi	c	79	55	0
Cassilis ..	b	86	53	0
Mus'brook	g	87	53	0
Dubbo ..	b	90	65	0
Mudgee ..	b	93	59	0
Maitland..	c	78	59	0·04
Newcastle	c	78	63	0
Orange ..	b	80	47	0
Bathurst..	b	85	..	0
MtVictoria	b	74	47	0
Forbes ..	..	..	..	..
SYDNEY ..	c	73	62	0·01
Wentw'th.	b	96	64	0
Young ..	b	82	56	0
Wol'gong	b	74	55	0
Moss Vale	..	..	..	..
Euston ..	b	110	62	0
Goulburn	b	81	46	0
Wagga ..	b	94	62	0
Cape Geo.	c	69	63	0
Queanb'an	b	88	51	0
Deniliquin	b	93	59	0
Albury ..	b	94	50	0
Bodalla ..	b	78	46	0
Cooma ..	b	82	36	0
Eden	b	70	53	0
Gabo Isld.	b	65	54	0·08

PD

0 29·75 F 89

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 5m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 7 January ..... 0·163.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

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sea moderate; heavy; very heavy.

Miles.	WIND SCALE.
13..	Light breeze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8

L Torrens

42 30·25 R 80 BO

FINE GENERALLY

W 14 30·20 R 85

0 30·15 F 85 A 23 30·27 R 80 D

14 30·26 R 78 AA

CB 18 30 14F

28 30·22 F 62 P

8 30·22 R 67 M

0 30·24 F 65

13 30·10 F 60 WP

GO 14 30·14 R 64

E 11 30·22 R 69

C 28 30·21 R 67

S 16 30 23 R 69

N 8 30·13 R 71

PM 28 30 15 R 66

G No report

B 18 30·13 R 73

R

Bar. has fallen about ·10

Bar. has risen about ·20

SMOOTH SEA

WEATHER MAP,

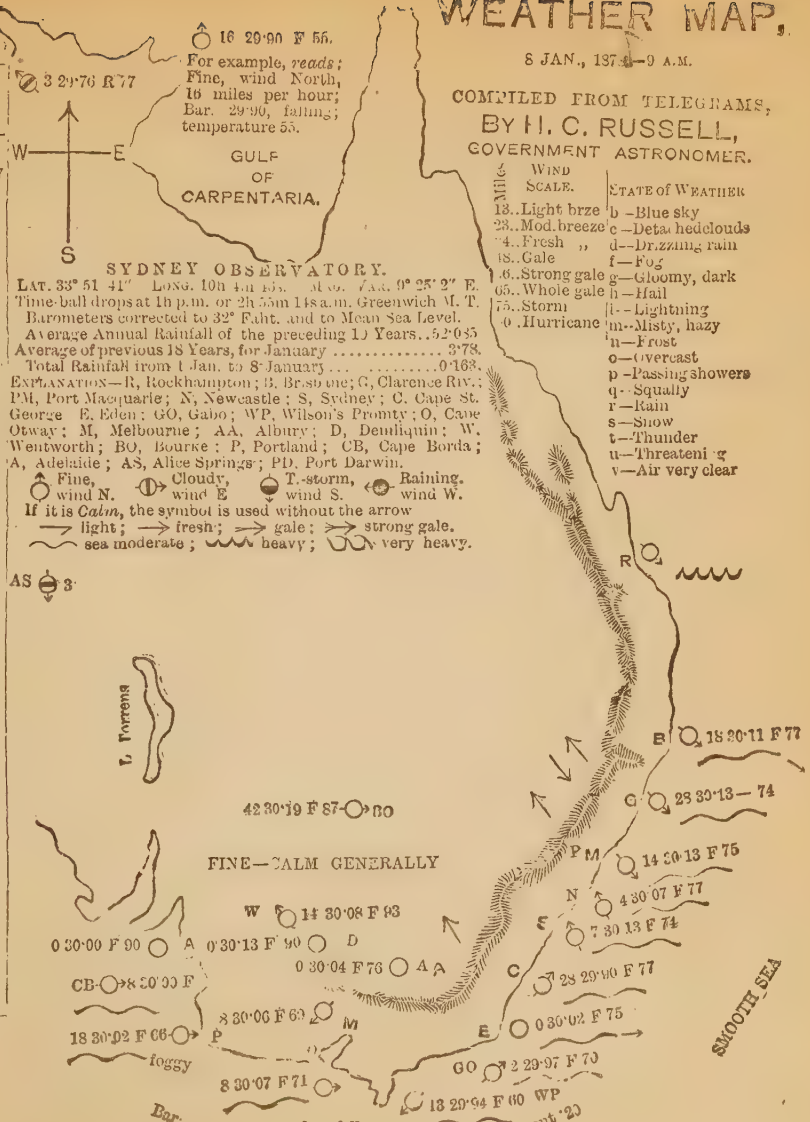
8 JAN., 187[illegible]—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfi'ld	b	71 4[illegible]		0
Grafton ..	u	88 [illegible]2		0·07
Inverell ..	b	83 50		0
Bourke ..	b	97 69		0
Narrabri ..	b	[illegible]01 70		0
Armidale .	b	180 46		0
Gunnedah	..	..	..	..
Tamworth	..	..	..	.
P. Macqrie	b	76 43		0
Murr'undi	b	81 51		0
Cassilis ..	b	87 56		0
Mus'brook	b	91 55		0
Dubbo ..	b	89 68		0
Mudgee ..	b	91 58		0
Maitland ..	b	78 61		0
Newcastle	b	79 62		0
Orange ..	b	84 48		0
Bathurst ..	..	.	..	..
MtVictoria	b	80 48		0
Forbes ..	..	..	..	..
SYDNEY ..	b	75 61		0
Wentw'th.	b	102 69		0
Young ..	b	88 55		0
Wolf'gong	b	75 60		0
Moss Vale	..	..	..	..
Euston ..	b	110 65		0
Goulburn	b	88 47		0
Wagga ..	b	94 60		0
Cape Geo.	..	..	..	..
Queanb'an	b	92 58		0
Deniliquin	b	103 59		0
Albury ..	b	101 52		0
Bodalla ..	b	80 45		0
Cooma ..	b	88 44		0
Eden	b	77 56		0
Gabo Isld	b	76 58		0



Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90	Hurricane

STATE of WEATHER

b —Blue sky
c —Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

9 JAN., 1875.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain. Line interrupted
Tenterfield				
Grafton		..		
Inverell				
Bourke	b	103	73	0
Narrabri				
Armidale		..		
Gunnedah				
Tamworth				
P. Macqrie	b	78	63	0
Murr'undi	..	..	..	..
Cassilis	b	97	55	0
[illegible]s'brook	..	..	..	..
Gabo	b	92	67	0
Bridgee	b	96	61	0
Maitland	b	86	61	0
Newcastle	b	82	63	0
Orange	b	87	52	0
Bathurst	b	90	59	0
Mt Victoria	b	91	60	0
Forbes	..	..	..	..
SYDNEY	b	81	64	0
Wentw'th.	b	110	67	0
Young	b	76	59	0
Woll'gong	b	79	60	0
Moss Vale	..	..	..	..
Euston	b	113	66	0
Goulburn	b	96	65	0
Wagga	b	98	62	0
Cape Geo.	b	83	65	0
Queanb'an	b	97	64	0
Deniliquin	b	102	65	0
Albury	b	105	59	0
Bodalla	b	83	54	0
Cooma	b	96	49	0
Eden	b	74	60	0
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 9 January ..... 0·163.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE OF WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 13

L Torrens

28 30·14 F 92 80

FINE—CALM GENERALLY

W 28 29·96 F 97

13 29·87 F 99 A 14 30·00 F 91 D

0 30·03 F 74 AA

CB 18 29·84 F

8 29·88 F 80 M

8 29·84 F 67 P

13 29·89 F 75

about ·20

Bar. has fallen

23 29·85 F 67 WP foggy

GO No report

E 0 29·93 F 76

C 14 30·03 — 75

Bar. has fallen about ·20

SMOOTH SEA

N 6 29·86 F 73

2 29·98 F 75

PM 42 30·04 F 76

G No report

B 18 30·07 F 79

R

WEATHER MAP,

10 JAN., 187[illegible]—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield				Line interrupted
Grafton ..		..		
Inverell ..				
Bourke ..	b	110	73	0
Narrabri..				Line interrupted
Armidale.		..		
Gunnedah				
Tamworth				
P. Macqrie	b	81	65	0
Murr'undi	Inter rupted			
Cassilis ..	b	102	62	0
Mus'brook	Inter rupted			
Dubbo ..	b	93	67	0
Mudgee ..	m	105	69	0
Maitland..	b	99	67	0
Newcastle	b	83	68	0
Orange ..	b	91	56	0
Bathurst..	b	108	31	0
MtVictoria	c	97	64	0
Forbes ..	..	..	..	..
SYDNEY ..	m	79	65	0
Wentw'th.	m	114	73	0
Young ..	b	102	62	0
Wol'gong	b	84	65	0
Moss Vale	b	96	65	0
Euston ..	b	117	61	0
Goulburn	b	96	55	0
Wagga ..	b	105	68	0
Cape Geo.	b	84	69	0
Queanb'an	b	103	69	0
Deniliquin	m	116	75	0
Albury ..	m	111	61	0
Bodalla ..	b	86	58	0
Cooma ..	b	100	60	0
Eden	b	81	64	0·10
Gabo Isld	m	78	65	0

PD

3

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 10 January ..... 0·163.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

R

L Torrens

B 23 30·08 R 80

14 30·11 F 92 BO

G No report

FINE—CALM GENERALLY

PM 23 30 02 F 74

W 28 29·97 R 95

N 4 30·15 R 77

18 29·84 F 104 A 14 29·97 F 88 D

2 29·94 F 78

0 29·99 F 74 AA

C 14 29·92 F 79

CB 18 29·87R

P M E 0 29·79 F 82

SMOOTH SEA

GO 14 29·75 – 76

WP

WEATHER MAP,

11 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain.
Tenterfield	b	80	40	0
Grafton ..	b	97	63	0
Inverell ..	b	96	62	0
Bourke ..	b	115	78	0
Narrabri..	b	113	80	0
Armidale.	b	93	46	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	81	60	0
Murr'undi	b	103	64	0
Cassilis ..	b	106	68	0
Mus'brook	b	114	69	0
Dubbo ..	b	93	67	0
Mudgee ..	m	106	77	0
Maitland..	m	101	72	0
Newcastle	b	82	69	0
Orange ..	b	97	60	0
Bathurst..	b	110	63	0
MtVictoria	b	102	69	0
Forbes ..	b	100	80	0
Sydney ..	b	87	68	0
Wentw'th.	c	115	76	0
Young ..	b	110	60	0
Woll'gong	b	89	60	0
Moss Vale	b	101	64	0
Euston ..	b	118	70	0
Goulburn	b	108	60	0
Wagga ..	b	105	69	0
Cape Geo.	f	91	69	0
Queanb'an	b	108	70	0
Deniliquin	m	119	79	0
Albury ..	m	115	62	0
Bodalla ..	b	100	58	0
Cooma ..	c	107	53	0
Eden	c	89	68	0
Gabo Isld	m	90	64	0·01

PD

3 29·85 — 85

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 11 January ..... 0·166.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS — 29 90 R —

L Torrens

B 18 30·08 S 81

G 28 30·02 — 83

28 30·06 F 97 BO

FINE—CALM GENERALLY

P M 42 29 98 F 77

N 4 29·86 F 73

S 1 29 90 F 79

W 28 29·93 F 96

3 29·97 R 86 A 14 29·92 F 93 D

0 29·97 F 84 A A

CB 28 30 00R

C 14 29·84 F 77

Bar. has risen about ·10

28 30·04 R 64 P

8 29·95 — 67 M

E 14 29·66 F 78

13 29·77 — 62

GO 0 29·71 F 79

No report WP

thunder

SMOOTH SEA

WEATHER MAP,

12 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterf'ld	b	..	45	0
Grafton ..	b	99	63	0
Inverell ..	b	101	64	0
Bourke ..	b	107	79	0
Narrabri..	b	115	82	0
Armidale.	b	96	50	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	81	64	0
Murr'undi	b	103	72	0
Cassilis ..	o	112	79	0
Mus'brook	o	115	75	0
Dubbo ..	o	108	85	0
Mudgee ..	o	112	82	0
Maitland..	o	102	78	0
Newcastle	b	81	71	0
Orange ..	c	96	65	0
Bathurst..	b	113	71	0
Mt Victoria	c	103	61	0
Forbes ..	b	104	76	0
SYDNEY ..	o	84	72	0
Wentw'th.	b	111	72	0
Young ..	..	..	..	..
Wol'gong	b	82	69	0
Moss Vale	..	..	..	..
Euston ..	b	116	70	0
Goulburn	o	109	65	0
Wagga ..	b	112	75	0
Cape Geo.	c	89	69	0
Queanb'an	b	109	70	0
Deniliquin	b	121	65	0
Albury ..	..	..	..	..
Bodalla ..	c	99	65	0
Cooma ..	c	106	54	0
Eden	c	90	64	0
Gabo Isld	b	85	63	0

PD

0 29·82 F 90

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·085

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 12 January ..... 0·166.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 4 29 93 R —

R

L Torrens

B 23 30·01 F 82

C 28 29·97 F 85

28 29·94 F 100 BO

FINE GENERALLY

P M 14 29 98 S 77

N — 30·09 R 74

S 24 30 03 R 74

W — 30·02 R 79

4 30·01 R 81 A 14 29·99 R 73 D

No report A A

CB No rept.

C 42 30·0?

13 30·05 R 64 M

28 29·98 F 64 P

O

E 14 30·07 R 78

GO 14 30·01 R 72

8 30·10 R 65

23 29·98 R 68 WP

Bar. has risen about ·60

SOUTH SEA

WEATHER MAP,

14 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	76	55	0
Grafton ..	b	101	69	0
Inverell ..	b	95	63	0
Bourke ..	b	115	82	0
Narrabri..	b	111	75	0·51
Armidale.	b	95	49	1·02
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	83	71	0
Murr'undi	b	99	71	0
Cassilis ..	b	108	74	0
Mus'brook	b	106	55	0
Dubbo ..	b	103	76	0
Mudgee ..	b	104	71	0
Maitland..	u	99	73	0·20
Newcastle	c	84	71	0
Orange ..	b	92	68	0
Bathurst..	..	..	..	..
MtVictoria	c	94	57	0
Forbes ..	b	99	75	0
SYDNEY ..	u	82	73	0·01
Wentw'th.	b	103	67	0
Young ..	b	104	72	0
Woll'gong	b	84	67	0
Moss Vale	..	..	..	..
Euston ..	b	113	70	0
Goulburn	g	102	63	0
Wagga ..	b	104	70	0
Cape Geo.	..	..	..	..
Queanb'an	b	101	66	0
Deniliquin	b	103	62	0
Albury ..	m	113	61	0
Bodalla ..	..	..	..	..
Cooma ..	b	96	50	0·02
Eden	b	82	62	0
Gabo Isld	c	76	62	0

PD

18 29·78 F 82

16 29·90 F 55.

For example, *reads*; Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 14 January ..... 0·174.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 18 29·91 F —

L Torrens

14 30·05 R 95 BO

FINE GENERALLY

W 28 30·10 R 80

S 30·25 F 87 A 14 30·08 R 76 D

14 30·05 R 78 A A

CB 18 30·14

13 30·14 R 66 M

23 30·15 R 67 P

S 30·15 R 67

23 29·97 F 62 WP

GO 1 29·92 F 65

E 14 29·99 F 78

C No report

N 5 29·89 F 78

S 8 29·97 F 78

P M 14 29 93 F 79

G 28 29·92 F 82

B 18 30·00 F 80

R

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP,

15 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	b	71	53	0
Grafton ..	b	104	71	0
Inverell ..	b	79	72	0
Bourke ..	b	115	86	0
Narrabri..	b	112	75	0
Armidale..	b	94	56	0·02
Gunnedah..	..	..	..	..
Tamworth..	..	..	..	..
P. Macqrie	b	85	72	0
Murr'undi	b	96	67	0
Cassilis ..	b	105	73	0
Mus'brook	b	99	6.	0
Dubbo ..	b	102	77	0
Mudgee ..	b	105	73	0
Mait'and..	b	88	73	0
Newcastle	b	85	68	0
Orange ..	b	95	63	0
Bathurst..	b	107	63	0
MtVictoria	b	87	57	0
Forbes ..	b	100	77	0
Sydney ..	b	83	67	0
Wentw'th.	b	102	67	0
Young ..	b	100	68	0
Woll'gong	b	89	65	0
Moss Vale	..	..	..	..
Euston ..	b	110	65	0
Goulburn	b	90	58	0
Wagga ..	b	103	72	0
Cape Geo.	b	78	64	0
Queanb'an	b	101	64	0
Deniliquin	b	105	64	0
Albury ..	m	103	62	0
Bodalla ..	..	..	..	..
Cooma ..	b	93	53	0
Eden	b	85	62	0
Gabo Isld	m	71	59	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 15 January ..... 0·174.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b —Blue sky
23..	Mod. breeze	c —Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p —Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 8 29·87 F —

L Torrens

42 29·96 F 92 BO

FINE—CALM GENERALLY

W — 29·96 F 86

3 29·95 F 82 A 14 29·94 F 83 D

0 29·91 F 73 AA

CB 8 29·98 F

13 29·86 F 70 M

28 29·94 F 65 P

18 29·88 F 67

Bar. has fallen

Abbot

GO 0 29·67 F 70

28 29·64 F 63 WP

about ·30

R

B 23 30·00 S 82

G 14 30·06 R 84

PM 28 29·92 F 81

N 6 29·79 F 81

E 10 29·80 F 82

C 28 29·74 — 75

E 14 29·72 F 74

SMOOTH SEA

WEATHER MAP,

16 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain.
Tenterfield	b	.. 67		0
Grafton ..	b	107	68	0
Inverell ..	b	99	68	0
Bourke ..	b	119	76	0
Narrabri..	b	114	56	0
Armidale.	b	90	73	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
C. Macquarie	c	94	74	0
Murr'undi	b	103	70	0
Cassilis ..	b	109	63	0
Mus'brook	b	153	75	0
Dubbo ..	g	106	75	0
Mudgee ..	g	105	68	0
Maitland..	g	105	79	0
Newcastle	c	108	73	0
Orange ..	b	94	64	0
Bathurst..	b	103	57	0
Mt Victoria	c	95	60	0
Forbes ..	b	102	76	0
SYDNEY ..	g	87	71	0
Wentw'th.	b	106	72	0
Young ..	b	104	65	0
Woll'gong	r	84	65	0
Moss Vale	..	..	..	..
Euston ..	b	108	69	0
Goulburn	b	100	60	0
Wagga ..	b	106	72	0
Cape Geo.	..	..	..	..
Queanb'an	c	98	65	0
Deniliquin	b	105	62	0
Albury ..	m	103	61	0
Bodalla ..	..	..	..	..
Cooma ..	..	..	..	..
Eden	..	..	..	..
Gabo Isld	g	73	59	0

PD

No report

W — E

S

16 29·90 F 56

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 56.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 1m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h from 1 is a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years. . 52·035

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 16 January ..... 0·174.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0 29·80 F — thunder

L Torrens

— 29·93 F 102 BO

FINE GENERALLY

W — 29·97 R 79

0 29·88 F 83 A 14 29·96 R 70 D

14 29·90 F 70 A A

CB 18 29·90F

18 30·01 R 62 M

28 30·05 R 62 P

13 30·04 R 63 O

Bar. has risen

GO 7 29·78 R 60

28 29·84 R 55 WP

Bar. fallen about ·20

B 13 29·82 F 88

G 14 29·75 F 84

PM 42 29·80 F 79

N 5 29·76 F 71

S 11 29·83 R 72

C No report

E No report

R

SMOOTH SEA

WEATHER MAP,

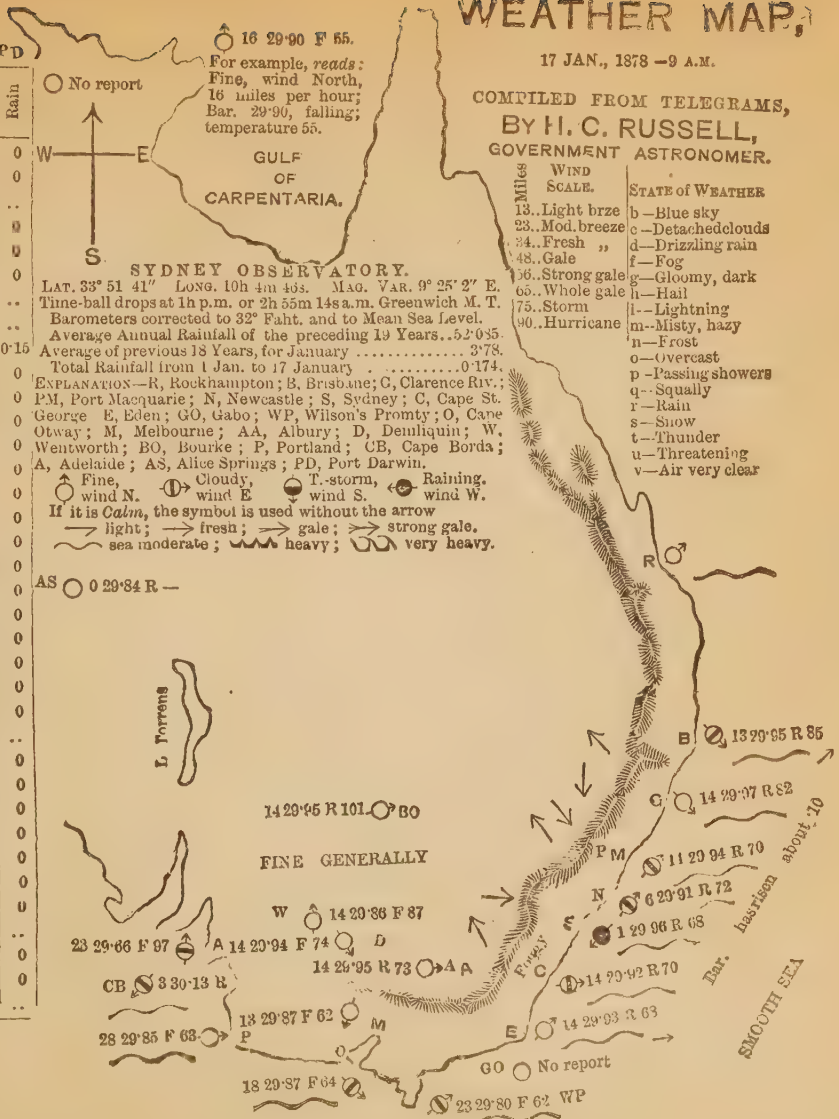
17 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfl'ld	u	..	40	0
Grafton ..	g	100	73	0
Inverell ..	..	..	..	..
Bourke ..	b	115	76	0
Narrabri..	b	112	74	0
Armidale.	b	95	63	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	81	69	0·15
Murr'undi	b	101	66	0
Cassilis ..	g	106	66	0
Mus'brook	g	102	56	0
Dubbo ..	b	104	75	0
Mudgee ..	c	105	68	0
Maitland..	u	90	72	0
Newcastle	g	83	63	0
Orange ..	b	91	54	0
Bathurst..	b	99	55	0
MtVictoria	f	83	52	0
Forbes ..	b	96	68	0
SYDNEY ..	d	73	66	0
Wentw'th.	b	98	68	0
Young ..	b	96	60	0
Woll'gong	c	84	63	0
Moss Vale	..	..	..	..
Euston ..	b	101	58	0
Goulburn	g	75	56	0
Wagga ..	b	96	63	0
Cape Geo.	b	71	65	0
Queanb'an	u	88	59	0
Deniliquin	b	91	55	0
Albury ..	b	99	54	0
Bodalla ..	..	..	..	..
Cooma ..	c	96	45	0
Eden	b	73	58	0
Gabo Isld	..	..	..	..



SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 17 January .....0·174.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP,

18 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	..	51	0
Grafton ..	c	94	75	0·07
Inverell ..	b	102	63	0
Bourke ..	b	113	77	0
Narrabri ..	b	114	79	0
Armidale ..	b	94	67	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macquarie	c	81	63	0·06
Murr'undi ..	b	94	64	0
Cassilis ..	b	95	63	0
Mus'brook ..	b	89	69	0
Dubbo ..	b	99	74	0
Mudgee ..	b	100	68	0
Maitland ..	b	89	73	0
Newcastle ..	b	83	71	0
Orange ..	b	89	57	0
Bathurst ..	..	..	..	..
Mt Victoria	b	87	52	0
Forbes ..	b	94	69	0
SYDNEY ..	m	82	68	0
Wentw'th.	b	113	52	0
Young ..	b	94	68	0
Wol'gong	b	78	68	0
Moss Vale	..	..	..	..
Euston ..	b	106	65	0
Goulburn	b	87	57	0
Wagga ..	b	96	72	0
Cape Geo.	c	77	67	0
Queanb'an	b	93	62	0
Deniliquin	b	106	74	0
Albury ..	b	102	62	0
Bodalla ..	b	82	62	0
Cooma ..	c	95	53	0
Eden	c	77	69	0
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 18 January .....0·174.

EXPLANATION.—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Wind Scale. Miles	State of Weather
13..Light brze	b—Blue sky
23..Mod. breeze	c—Detached clouds
34..Fresh ,,	d—Drizzling rain
48..Gale	f—Fog
56..Strong gale	g—Gloomy, dark
65..Whole gale	h—Hail
75..Storm	i—Lightning
90..Hurricane	m—Misty, hazy
	n—Frost
	o—Overcast
	p—Passing showers
	q—Squally
	r—Rain
	s—Snow
	t—Thunder
	u—Threatening
	v—Air very clear

R No report

AS 8 29·72 F —

L Torrens

B — 30·02 R 84

G 14 30·00 R 88

28 29·92 F 99 — BO

FINE GENERALLY

PM 28 29·90 F 79

N 5 29·78 F 78

11 29·81 F 80

W 42 30·04 R 73

13 29·99 F 71 A 28 29·85 F 81 D

0 29·85 F 76 AA

C 42 29·76 F 75

CB 13 29·97 F

13 29·82 F 71 M

34 29·85 S 63 P

E 28 29·70 F 77

SMOOTH SEA

GO No report

40 29·90 R 65

28 29·65 F 64 WP

BAR. has fallen about ·20

WEATHER MAP,

19 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterd'ld	b	..	62	0
Grafton ..	b	103	73	0
Inverell ..	b	102	72	0·12
Bourke ..	b	121	83	0
Narrabri..	b	116	90	0
Armidale.	b	96	73	0·43
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	m	88	72	0
Murr'undi	b	106	64	0
Cassilis ..	b	112	77	0
Mus'brook	b	117	72	0
Dubbo ..	b	105	76	0
Mudgee ..	m	103	74	0
Maitland..	g	104	78	0
Newcastle	g	97	71	0
Orange ..	b	98	66	0
Bathurst..	b	110	64	0
Mt Victoria	b	101	65	0
Forbes ..	..	..	..	..
SYDNEY ..	g	84	71	0
Wentw'th.	b	92	58	0
Young ..	..	..	..	..
Wol'gong	c	88	67	0
Moss Vale	..	..	..	..
Euston ..	b	95	60	0
Goulburn	b	106	64	0
Wagga ..	b	109	70	0
Cape Geo.	c	104	69	0
Queanb'an	b	105	68	0
Deniliquin	b	100	64	0
Albury ..	b	107	65	0
Bodalla ..	g	94	62	0
Cooma ..	b	100	50	0
Eden	c	82	63	0
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 18 Years, for January .....3·78.
Total Rainfall from 1 Jan. to 19 January .....0·175.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WIND SCALE.

Miles.	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 3 29·96 R —

L Torrens

B 18 29·98 R 87

C 14 29·85 F 91

28 30·07 R 90 BO

FINE GENERALLY

PM 42 29 85 F 70

N 8 29·85 R 75

S 11 29 90 R 71

W 42 30·18 R 69

18 30·19 R 71 A 28 30·09 R 71 D

14 30·00 R 73 A A

C 0 29·88 R 73

CB 13 30·21R

13 30·04 R 65 M

E 28 29·90 R 68

34 30·07 R 63 P O

SMOOTH SEA

Bar. has risen about ·20

No report

GO No report

28 29·78 R 62 WP

WEATHER MAP,

21 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterf'ld	..	..	..	..
Grafton	..	..	..	..
Inverell	b	101	65	0
Bourke	b	93	65	0
Narrabri	b	100	73	0
Armidale	u	95	64	0·10
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	p	79	64	0·27
Murr'undi	u	95	60	0
Cassilis	b	97	63	0
Mus'brook	u	105	55	0
Dubbo	u	84	57	0
Mudgee	c	97	64	0
Maitland	u	92	66	0·31
Newcastle	p	84	61	0·76
Orange	c	82	39	0
Bathurst	b	103	54	0
Mt Victoria	c	91	47	0
Forbes	b	84	64	0
SYDNEY	u	79	65	0·02
Wentw'th.	b	87	53	0
Young	b	82	56	0
Woll'gong	b	81	60	0
Moss Vale	..	..	..	..
Euston	b	94	53	0
Goulburn	c	87	54	0
Wagga	b	102	58	0
Cape Geo.	c	73	63	0
Queanb'an	b	97	56	0
Deniliquin	b	89	54	0
Albury	b	96	51	0
Bodalla	..	..	..	..
Cooma	u	82	41	0
Eden	g	74	56	0
Gabo Isld	..	..	..	..

PD

3 29·82 — 92

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·035
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 21 January ..... 0·195.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles — WIND SCALE.

13..Light brze
23..Mod. breeze
34..Fresh ,,
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 29·98 R —

B No report

C No report

L Torrens

42 30·16 R 74 BO

clouds

P M 30 02 R 65

N 30 01 R 62

S 28 30 08 R 63

Fine

W 28 30·29 R 67

8 30·28 R 67 A 14 30·37 R 64 D

28 30·20 R 66 A A

CB 18 30·27 R

C 42 30·16 R 62

SMOOTH SEA

13 30·28 R 61 M

28 30·34 R 61 P

E 14 30·13 R 61

GO No report

13 30·32 R 59

18 30·17 R 61 WP

has risen

about 30

WEATHER MAP,

22 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterf'ld	r	51	..	1·06
Grafton ..	u	94	62	0·48
Inverell ..	g	95	58	0·03
Bourke ..	b	89	68	0
Narrabri..	u	98	70	0
Armidale..	r	65	53	0·64
Gunnedah ..	..	..	..	..
Tamworth..	..	..	..	..
P. Macqrie	c	71	60	0·68
Murr'undi	c	68	52	0
Cassilis ..	b	71	57	0
Mus'brook	c	75	56	0·01
Dubbo ..	b	85	65	0
Mudgee ..	b	81	59	0
Maitland..	p	71	60	0·48
Newcastle	c	72	60	0·36
Orange ..	c	78	44	0
Bathurst..	h	79	49	0
MtVictoria	g	68	45	0
Forbes ..	b	83	59	0
SYDNEY ..	d	72	59	0·89
Wentw'th.	b	86	63	0
Young ..	b	78	53	0
Wol'gong	c	75	57	0
Moss Vale ..	..	..	..	..
Euston ..	b	83	60	0
Goulburn	c	86	49	0
Wagga ..	b	84	58	0
Cape Geo.	p	68	58	0
Queanb'an	c	..	55	0
Deniliquin	b	86	58	0
Albury ..	b	81	47	0
Bodalla ..	c	78	56	0
Cooma ..	c	67	44	0
Eden	u	71	58	0·02
Gabo Isld ..	.	..	..	..

PD

18 29·82 S 81

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·035
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 22 January .....1·083.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 23 29·98 S —

B No report

C 14 30·09 R 62

L Torrens

56 30·22 R 74 BO

FINE

PM 28 30 10 R 67

N 8 30·12 R 70

about ·10

S 8 30 22 R 61

Showery has risen

W 42 30·20 F 79

13 30·13 F 83 A 28 30·30 F 71 D

28 30·29 R 67 A A

Cloudy

C 42 30·25 R 59

SMOOTH SEA

CB No report

Bar.

18 30·20 F 69 M

E 14 30·17 R 62

18 30·16 F 63 P

Bar.

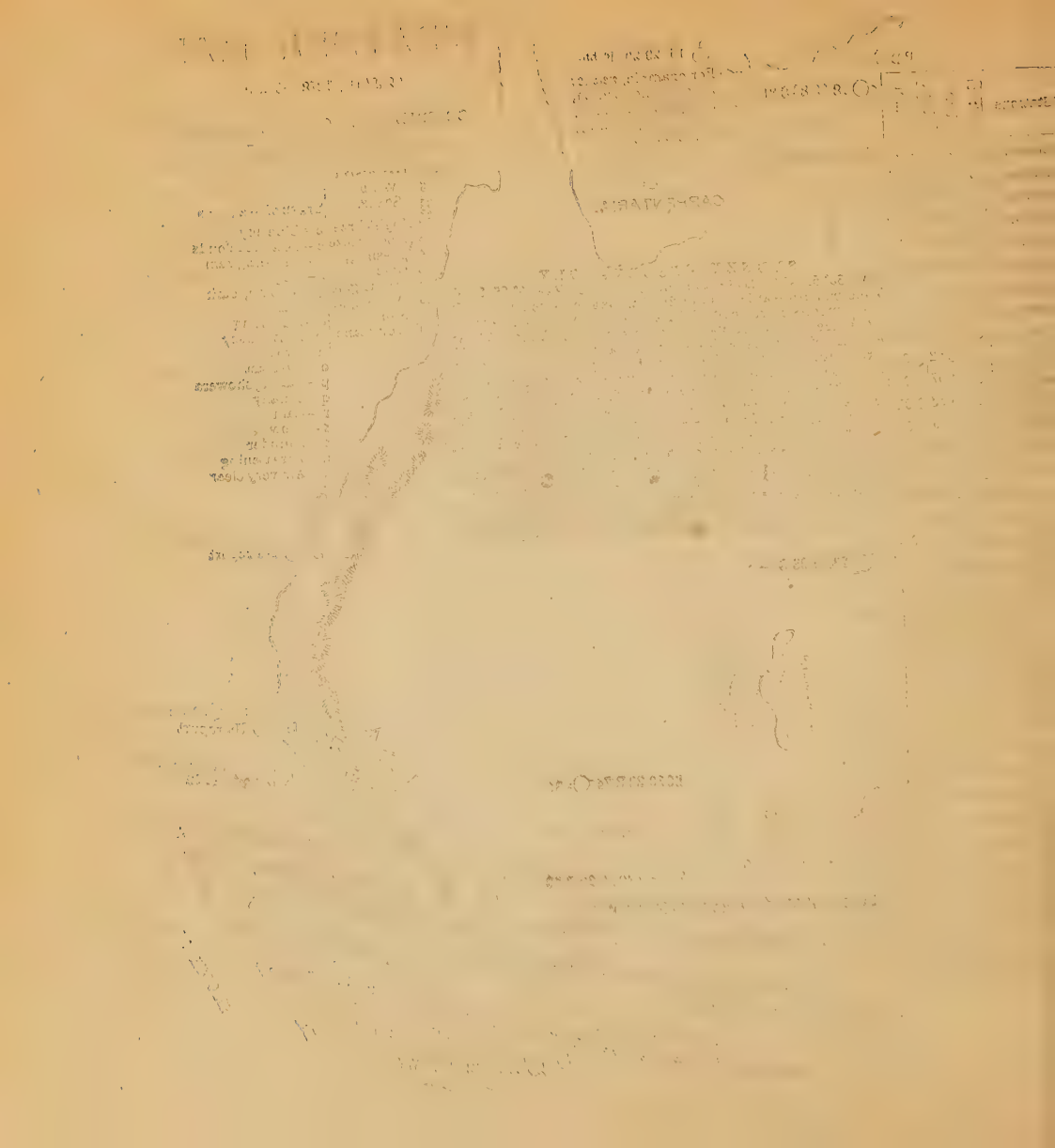
has fallen

GO No report

18 30·20 F 66

23 30·12 F 65 WP

about ·10



WEATHER MAP.

23 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	u	50	..	0·06
Grafton ..	r	93	64	0·60
Inverell ..	g	78	57	0
Bourke ..	b	91	67	0
Narrabri..	b	91	70	0
Armidale..	c	66	52	0·05
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	p	74	62	0·43
Murr'undi	b	75	51	0
Cassilis ..	b	80	56	0
Mus'brook	b	80	56	0
Dubbo ..	b	86	64	0
Mudgee ..	b	83	57	0
Maitland..	b	73	61	0
Newcastle	b	77	64	0
Orange ..	b	76	44	0
Bathurst..	b	92	46	0
Mt Victoria	c	68	46	0
Forbes ..	..	..	..	..
SYDNEY ..	c	72	61	0·01
Wentw'th.	c	97	63	0
Young ..	b	79	53	0
Woll'gong	b	71	60	0
Moss Vale	..	..	..	..
Euston ..	b	98	61	0
Goulburn	b	74	45	0
Wagga ..	b	83	60	0
Cape Geo.	b	75	62	0
Queanb'an	b	85	49	0
Deniliquin	b	95	62	0
Albury ..	b	93	57	0
Bodalla ..	b	80	60	0
Cooma ..	..	..	..	..
Eden	b	73	59	0
Gabo Isld	..	..	..	..

PD

3 30·03 R 81

16 29·90 F hh.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 23 January .....1·096.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light breze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90 .	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·01 R —

L Torrens

B 8 30·12 — ·6

cloudy

G No report

28 30·24 R 86 BO

PM 23 29·95 F 47

N 4 30·12 S 72

W 28 30·15 F 88

Fine

S 23 30·19 F 71

13 30·16 R 73 A 14 30·11 F 79 D

0 30·22 F 74 A A

C 14 30·17 F 70

CB 23 30·17

28 30·03 F 82 M

No report P squally

E 14 30·08 F 73

SMOOTH SEA

GO No report

8 30·08 F 67

Bar. has fallen about ·20

8 29·93 F 73 WP

WEATHER MAP,

24 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	45	..	0
Grafton	r	87	64	0·13
Inverell	b	94	55	0
Bourke	b	97	68	0
Narrabri	b	99	62	0
Armidale	b	69	46	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	p	72	62	0·12
Murr'undi	b	85	53	0
Cassilis	b	92	60	0
Mus'brook	..	..	..	..
Dubbo	b	87	65	0
Mudgee	b	93	63	0
Maitland	b	83	63	0
Newcastle	b	79	66	0
Orange	b	82	53	0
Bathurst	b	92	55	0
MtVictoria	g	83	51	0
Forbes	b	89	69	0
SYDNEY	c	76	64	0
Wentw'th.	c	106	63	0
Young	b	88	61	0
Wol'gong	b	81	62	0
Moss Vale	c	83	57	0
Euston	o	103	67	0
Goulburn	b	94	55	0
Wagga	b	91	63	0
Cape Geo.	..	..	..	..
Queanb'an	b	91	55	0
Deniliquin	g	103	66	0
Albury	m	99	62	0
Bodalla	..	..	..	..
Cooma	b	89	50	0
Eden	c	77	62	0
Gabo Isld	..	..	..	..

PD

3 29·72 F 79

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 24 January .....1·096.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 3 30·05 R —

L Torrens

R

B 3 30·10 F 71

C No report

Showery

PM 14 30·18 R 68

N 5 30·20 R 74

S 3 30 26 R 75

C No report

E 14 30·23 R 72

GO No report

WP

14 30·24 S 89 BO

FINE GENERALLY

W 28 30·28 R 70

18 30·28 R 69 A 14 30·24 R 72 D

14 30·24 R 81 A A

CB 18 30·32 R

13 30·30 R 63 M

28 30·36 — 61 P O

8 30·36 R 60

3 30·18 R 65

Bar.

has risen about ·30

SMOOTH SEA

WEATHER MAP,

25 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain
Tenterfield	u	53 ..		0
Grafton ..	p	79	65	0·33
Inverell ..	b	87	60	0
Bourke ..	b	105	75	0
Narrabri..	c	96	69	0
Armidale..	c	76	46	0
Gunnedah..	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	p	76	65	0·32
Murr'undi	u	77	60	0
Cassilis ..	b	90	62	0
Mus'brook	b	91	76	0
Dubbo ..	b	92	68	0
Mudgee ..	u	94	64	0
Maitland..	g	81	68	0
Newcastle	r	82	65	0
Orange ..	b	85	54	0
Bathurst..	g	87	60	0
Mt Victoria	u	80	54	0
Forbes ..	b	91	68	0
SYDNEY ..	o	78	69	0
Wentw'th.	c	94	70	0
Young ..	c	93	64	0
Wol'gong	c	82	59	0
Moss Vale	c	82	60	0
Euston ..	b	96	63	0
Goulburn	u	90	60	0
Wagga ..	b	100	70	0
Cape Geo.	c	83	63	0
Queanb'an	b	93	63	0
Deniliquin	b	88	60	0
Albury ..	m	102	61	0
Bodalla ..	c	80	58	0
Cooma ..	u	90	62	0
Eden	u	79	65	0
Gabo Isld ..	.	..	..	..

PD

3 29·96 R 84

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·035
Average of previous 38 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 25 January ..... 1·096.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
0 ..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·11 R —

L Torrens

B 8 30·01 F 78

C — 30·02 — 67

4230·22 F 85 BO

Generally cloudy

PM 28 30 13 F 71

N 6 30·15 F 71 rain

S 12 30 22 F 76

W 14 30·20 F 78

8 30·16 F 77 A 14 30·22 F 73 D

14 30·24 S 80 AA

C 28 30·29 R 72

CB 13 30·17 F

13 30·18 F 70 M

E 14 30·23 S 69

34 30·23 F 64 P

Bar. has fallen about ·10

GO No report

28 30·22 F 60

28 30·11 F 60 WP

WEATHER MAP,

26 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	u	83	..	0
Grafton	..	..	..	..
Inverell	..	..	..	..
Bourke	b	104	73	0
Narrabri	b	92	71	0
Armidale	b	69	58	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	p	77	68	0·33
Murrumbidgee	b	94	57	0
Cassilis	b	80	65	0
Muswellbrook	b	88	62	0
Dubbo	b	91	68	0
Mudgee	c	94	65	0
Maitland	c	84	62	0
Newcastle	c	79	66	0
Orange	b	85	55	0
Bathurst	b	95	56	0
Mt Victoria	o	71	54	0
Forbes	b	85	68	0
SYDNEY	o	79	69	0
Wentworth	m	102	67	0
Young	o	95	62	0
Wollongong	p	80	60	0
Moss Vale	c	77	58	0
Euston	b	105	69	0
Goulburn	o	84	53	0
Wagga	b	90	70	0
Cape Geo.	b	81	66	0
Queanbeyan	..	..	..	..
Deniliquin	o	104	70	0
Albury	b	100	59	0
Bodalla	b	85	55	0
Cooma	o	78	49	0
Eden	b	79	65	0
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 15s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 10 p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·035

Average of previous 18 Years, for January ..... 2·78.

Total Rainfall from 1 Jan. to 26 January ..... 1·096.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS

L Torrens

42 30·04 F 88 BO

Generally cloudy

Showery

W 14 30·04 F 85

A 28 30·12 F 83 D

28 30·16 F 74 A

Showers

CB

P M

28 30·09 F 72

N 5 30·13 F 71

10 30 14 F 76

14 30·19 F 70

28 30·07 F 79

No report

GO No report

WP

WEATHER MAP,

28 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	c	..	53	0
Grafton ..	c	90	65	0·28
Inverell ..	b	85	56	0
Bourke ..	b	106	78	0
Narrabri..	b	98	63	0
Armidale..	b	83	60	0
Gunnedah	b	100	72	0
Tamworth ..	..	..	..	..
P. Macquarie	c	79	67	0
Murr'undi	o	92	63	0
Cassilis ..	c	97	66	0
Mus'brook	b	105	65	0
Dubbo ..	b	95	68	0
Mudgee ..	b	100	64	0·15
Maitland..	b	89	66	0
Newcastle	b	83	71	0
Orange ..	b	88	63	0·09
Bathurst..	b	96	56	0
Mt Victoria	c	89	52	0·50
Forbes ..	b	83	72	0
Sydney ..	g	81	70	0
Wentw'th.	b	101	60	0
Young ..	b	95	65	0
Wol'gong	b	83	57	0
Moss Vale	d	96	63	0·44
Euston ..	b	105	66	0
Goulburn	g	96	55	0·68
Wagga ..	b	105	68	0
Cape Geo.	g	80	78	0
Queanb'an	c	99	61	0
Deniliquin	b	106	56	0
Albury ..	m	106	59	0
Bodalla ..				
Cooma ..		..		Line interrupted
Eden				
Gabo Isld				

PD

8 29·80 -- 83

W — E

S

16 29·90 F 55.

For example, *reads*; Fine, wind North, 16 miles per hour; Bar. 29·90, raining; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY

LAT. 33° 51′ 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 5m 1·1s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·685

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 28 January ..... 1·096

EXPLANATION R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90 .	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

L Torrens

28 30·12 R 94 BO

FINE GENERALLY

W 28 30·27 R 67

0 30·19 R 72 A 14 30·28 R 57 D

14 29·98 F 79 A

CB — 30·18 R

28 30·19 R 65 P

18 30·17 R 63 M

S 30·23 R 66

Bar: has risen

R

B 3 30·07 R 80

G 14 30·08 —76

PM 14 30·11 R 77

N 14 30·09 F 79

S 2 30·12 F 76

C 42 30·06 F 70

E No report

GO No report

28 30·09 R 63 WP about ·20

SMOOTH SEA

WEATHER MAP,

29 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	c	..	45	0
Grafton ..	c	93	66	0
Inverell ..	b	80	60	0
Bourke ..	b	113	76	0
Narrabri..	b	109	70	0
Armidale..	b	82	59	0
Gunnedah	b	103	70	0
Tamworth	..	..	..	..
P. Macqrie	b	81	63	0
Murr'undi	b	92	60	0
Cassilis ..	b	95	67	0
Mus'brook	b	93	64	0
Dubbo ..	b	98	71	0
Mudgee ..	b	99	64	0·36
Maitland..	c	85	67	0
Newcastle	c	84	69	0
Orange ..	b	81	55	0
Bathurst..	b	94	56	0·36
MtVictoria	c	83	55	0
Forbes ..	b	95	75	0
SYDNEY ..	c	81	69	0
Wentw'th.	b	93	58	0
Young ..	b	97	66	0
Wol'gong	b	78	69	0
Moss Vale	..	..	..	..
Euston ..	b	97	68	0
Goulburn	b	82	60	0
Wagga ..	b	100	72	0
Cape Geo.	c	75	67	0
Queanb'an	g	91	64	0
Deniliquin	b	95	65	0
Albury ..	m	103	6½	0
Bodalla ..	r	80	62	0·30
Cooma ..	b	74	57	0·03
Eden	p	79	65	0·45
Gabo Isld	..	..	..	..

16 29·90 F 55.

For example, *reads*; Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

3 29·82 R 85

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 1 0 09s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 5m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 29 January ..... 1·096

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light breze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 3 30·10 —

L Torrens

R

B 3 30·13 R 80

G 82 30·03 F 80

28 30·12 S 92 BO

FINE GENERALLY

P M 14 30 17 R 77

N 6 30·15 R 76

12 30 20 R 77

SMOOTH SEA

W 14 30·15 F 79

0 30·06 F 84 A 14 30·15 F 81 D

14 30·15 R 81 A

Raining

C

0 30·20 R 74

CB 18 30·05 F

Bar.

13 30·13 F 72 M

23 30·13 F 66 P

E 42 30·16 F 69

has fallen about ·10

34 30·16 F 65

GO No report

28 30·11 R 63 WP

WEATHER MAP,

30 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterf'ld	b	..	65	0
Grafton ..	c	93	65	0
Inverell ..	b	93	61	0
Bourke ..	b	113	82	0
Narrabri..	b	103	74	0
Armidale..	b	80	58	0
Gunnedah	b	100	70	0
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	c	92	60	0
Cassilis ..	b	95	65	0
Mus'brook	b	93	47	0
Dubbo ..	b	95	73	0
Mudgee ..	b	96	65	0
Maitland..	b	83	65	0
Newcastle	b	81	66	0
Orange ..	b	90	55	0
Bathurst..	b	..	53	0
MtVictoria	b	84	53	0
Forbes ..	b	94	74	0
SYDNEY ..	c	80	66	0
Wentw'th.	m	102	61	0
Young ..	b	96	66	0
Wol'gong	c	82	64	0
Moss Vale	b	84	59	0
Euston ..	b	107	56	0
Goulburn	c	83	57	0
Wagga ..	b	99	51	0
Cape Geo.	b	84	63	0
Queamb'an	b	91	62	0
Deniliquin	b	105	71	0
Albury ..	m	105	64	0
Bodalla ..	b	83	58	0
Cooma ..	b	83	51	0
Eden	b	80	66	0·02
Gabo Isld	..	..	..	..

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

18 29·30 F 88

W — E

S

GULF OF CARPENTARIA.

Miles Wind Scale.

13..Light brze
23..Mod. breeze
34..Fresh „
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

State of Weather

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 15s. MAG. 7A.G. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·035
Average of previous 18 Years, for January ..... 3·78.
Total Rainfall from 1 Jan. to 30 January ..... 1·096

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

AS 18 30·03 F

R

B 3 30·08 F 80

G 14 30·08 R 74

L. Torrens

14 30·08 F 92 BO

FINE GENERALLY

PM No report

N 5 30·14 F 76

W 14 29·97 F 86

3 29·90 F 91

A 14 30·01 F 86 D

14 30·07 F 78 AA

14 30 12 F 75

C 14 30·07 F 75

SMOOTH SEA

CB 18 29·99 F

8 29·89 F 81 M

E 14 30·02 F 79

13 29·87 F 69 P

GO No report

13 29·91 F 69 foggy

23 29·85 F 67 WP

Bar. has fallen about ·30

WEATHER MAP,

31 JAN., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	..	40	0
Grafton ..	b	93	60	0
Inverell ..	b	92	61	0
Bourke ..	b	114	76	0
Narrabri..	c	100	77	0
Armidale.	b	83	61	0
Gunnedah	b	104	73	0
Tamworth	..	..	..	..
P. Macqrie	c	84	62	0
Murr'undi	b	93	62	0
Cassilis ..	b	93	66	0
Mus'brook	b	96	65	0
Dubbo ..	b	96	77	0
Mudgee ..	b	98	68	0
Maitland..	b	89	65	0
Newcastle	b	81	69	0
Orange ..	..	..	..	..
Bathurst..	..	..	..	..
Mt Victoria	b	87	56	0
Forbes ..	..	..	..	..
SYDNEY ..	b	81	67	0
Wentw'th.	m	109	72	0
Young ..	..	..	..	..
Woll'gong	b	82	67	0
Moss Vale	b	84	61	0
Euston ..	b	113	64	0
Goulburn	b	93	58	0
Wagga ..	b	95	74	0
Cape Geo.	b	81	69	0
Queanb'an	b	98	66	0
Deniliquin	b	111	73	0
Albury ..	m	108	66	0
Bodalla ..	b	82	56	0
Cooma ..	b	89	56	0
Eden	b	81	69	0
Gabo Isld	..	..	..	..

PD

8 29·78 F 85

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 15 Years..52·085

Average of previous 18 Years, for January ..... 3·78.

Total Rainfall from 1 Jan. to 31 January ..... 1·096

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 29·98 F

L Torrens

B 3 30·03 F 83

G 14 30·08 S 83

PM 14 30·06 F 75

N 3 29·96 F 75

E 11 30·03 F 78

C 28 29·96 F 75

E 42 29·93 F 77

GO No report

18 29·83 F 72 WP

Bar. has fallen about .10

SMOOTH SEA

foggy

foggy

42 29·99 F 94 BO

FINE—CALM GENERALLY

W 28 29·92 F 94

3 29·87 F 89 A 14 29·95 F 95 D

0 30·01 F 83 AA

CB 18 29·88 F

13 29·91 R 70 M

18 29·91 R 65 P O

13 29·93 R 61

WEATHER MAP,

1 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	..	57	0
Grafton ..	c	95	65	0
nverell ..	b	95	63	0
Bourke ..	..	..	..	..
Narrabri..	c	109	72	0
Armidale..	b	80	63	0
Gunnedah	b	108	73	0
Tamworth	..	..	..	..
P. Macqrie	b	80	62	0
Murr'undi	b	76	61	0
Cassilis ..	b	98	63	0
Mus'brook	b	101	66	0
Dubbo ..	b	101	78	0
Mudgee ..	m	106	71	0
Maitland..	c	90	67	0
Newcastle	g	82	68	0
Orange ..	b	94	60	0·05
Bathurst..	b	102	58	0
MtVictoria	b	94	54	0
Forbes ..	..	..	..	..
SYDNEY ..	g	80	63	0
Wentw'th.	c	116	73	0
Young ..	b	106	66	0·05
Woll'gong	b	82	65	0
Moss Vale	b	90	63	0
Euston ..	g	120	72	0
Goulburn	b	102	60	0
Wagga ..	b	106	74	0
Cape Geo.	c	80	67	0
Queanb'an	b	99	62	0·10
Deniliquin	c	117	75	0
Albury ..	m	114	66	0
Bodalla ..	c	85	65	0
Cooma ..	f	100	50	0
Eden	c	79	69	0
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·085
Average of previous 10 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 1 February .....1·096

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles.	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 13 30·04 R

B 8 30·04 R 80

C — 30·03 F 74

L Torrens

No report BO

FINE—CALM GENERALLY

PM 14 30·06 S 71

N 0 30·06 R 75

S 2 30 08 R 75

W 14 29·73 F 86

18 29·93 R 79 A 14 30·02 R 89 D

14 30·10 R 84 AA

CB 18 29·96R

C 14 30·05 R 75

23 29·95 R 64 P 13 29·92 R 70 M

E 14 30·01 R 75

toggy

Bar. has risen about ·10

SMOOTH SEA

28 29·96 — 61 toggy

GO No report

8 29·78 F 68 WP

WEATHER MAP,

2 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfi'ld	b	..	58	0
Grafton ..	b	95	64	0
Inverell ..	b	93	58	0
Bourke ..	b	116	81	0
Narrabri..	c	108	71	0
Armidale.	b	84	69	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	o	82	64	0
Murr'undi	b	90	58	0
Cassilis ..	b	97	65	0
Mus'brook	b	99	65	0
Dubbo ..	b	100	74	0
Mudgee ..	m	101	65	0
Maitland..	b	87	70	0
Newcastle	b	83	64	0
Orange ..	b	92	57	0
Bathurst..	b	82	..	0
MtVictoria	b	87	53	0
Forbes ..	..	..	..	..
SYDNEY ..	c	79	66	0
Wentw'th.	c	116	67	0
Young ..	b	100	68	0
Woll'gong	b	86	65	0
Moss Vale	b	87	58	0
Euston ..	o	118	69	0
Goulburn	b	97	55	0
Wagga ..	b	104	77	0
Cape Geo.	b	82	71	0
Queanb'an	b	99	64	0
Deniliquin	c	117	71	0
Albury ..	m	114	70	0
Bodalla ..	b	81	65	0
Cooma ..	b	87	54	0
Eden	b	81	68	0
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 2 February .....1·096

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog.
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS

L Torrens

B 3 29·96 F 82

G 28 29·91 F 75

56 29·99 — 90 BO

Generally cloudy

PM 28 29·97 F 73

N 4 29·96 F 74

about ·10

W 42 30·08 R 70

S 3 30 02 F 75

A 42 30·00 F 67 D

28 29·99 F 89 A

C 28 30·00 F 76

has fallen

SMOOTH SEA

13 30·04 R 69 M

28 30·11 R 60 P

E 28 29·88 F 76

Bar.

GO No report

Raining

18 29·94 F 57

18 29·90 R 64 WP

Bar. has risen

about ·10

WEATHER MAP,

4 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	c	..	50	0
Grafton ..	c	93	66	0
Inverell ..	c	95	67	0
Bourke ..	g	102	78	0
Narrabri..	u	106	73	0
Armidale..	b	84	60	0
Gunnedah	b	103	73	0
Tamworth	..	..	..	..
P. Macqrie	b	81	72	0
Murr'undi	b	94	58	0
Cassilis ..	b	97	63	0
Mus'brook	b	96	65	0
Dubbo ..	c	97	73	0
Mudgee ..	u	96	70	0
Maitland..	b	91	70	0
Newcastle	b	84	70	0
Orange ..	u	91	60	0
Bathurst..	g	91	62	0
MtVictoria	g	87	58	0
Forbes ..	..	..	..	..
SYDNEY ..	c	81	72	0·02
Wentw'th.	u	78	56	0
Young ..	c	90	58	0
Wol'gong	c	87	67	0
Moss Vale	o	84	63	0·03
Euston ..	g	68	57	0
Goulburn	u	93	62	0
Wagga ..	..	..	..	..
Cape Geo.	c	84	71	0
Queanb'an	g	97	66	0
Deniliquin	g	94	58	1·30
Albury ..	o	110	64	0
Bodalla ..	c	84	66	0
Cooma ..	p	82	63	0·01
Eden	d	79	69	0
Cabo Isld	..	..	..	..

PD

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 10 Years..52·035
Average of previous 10 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 4 February .....1·015.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS

L. Torrens

R

B 3 30·02 R 78

C 28 29·90 F 78

14 29·98 S 79 BO

Generally cloudy

PM 70 30·04 R 76

N 7 29·99 R 76

W — 30·07 F 60

13 30·01 F 78

Bar. has risen about .10

A 14 30·04 R 62 D thunder

28 29·95 F 82 AA

Thun e and Rain

C — 30·02 R 74

CB

18 29·95 F 64 M

Raining E 14 29·95 R 73

40 29·98 F 61 P

No report

GO No report

13 29·84 F 66 WP

WEATHER MAP,

5 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	b	..	45	0
Grafton	c	82	64	0
Inverell	b	92	68	0·01
Bourke	..	..	..	..
Narrabri	p	101	75	0·09
Armidale	b	82	64	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	80	70	0·02
Murr'undi	r	93	65	0
Cassilis	r	97	66	0·79
Mus'brook	u	97	45	0·07
Dubbo	..	..	..	..
Mudgee	..	..	..	..
Maitland	r	90	70	0·75
Newcastle	r	79	68	0·36
Orange	..	..	..	..
Bathurst	r	77	56	1·04
Mt Victoria	p	77	55	0·62
Forbes	..	..	..	..
SYDNEY	r	80	70	0·08
Wentw'th	..	..	..	..
Young	..	..	..	..
Wol'gong	r	81	68	0
Moss Vale	r	75	62	0·13
Euston	..	..	..	..
Goulburn	r	80	61	0·09
Wagga	r	86	65	0·29
Cape Geo.	r	79	69	0·22
Queanb'an	r	81	63	0·40
Deniliquin	..	..	..	..
Albury	r	..	65	0·28
Bodalla	c	85	56	0
Cooma	..	..	..	..
Eden	r	79	65	0
Gabo Isld	..	..	..	..

PD

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 5 February .....1·095.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

B 3 30·01 F 83

G 14 30·01 R 75

PM 28 29·85 R 74

N 29·46 F 68

S 30 00 F 71

C 14 29·63 F 68

E 14 30·06 R 67

GO No report

WP

No report BO

Generally cloudy

General rain

W No report

No report D

A

14 30·04 R 68

CB

23 30·14 R 59 M

No report P O

56 30·23 R 58

Bar. has risen about ·20

L Torrens

AS

WEATHER MAP,

6 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	u	..	40	0
Grafton ..	u	101	70	0·58
Inverell ..	g	89	71	0·03
Bourke ..	..	..	..	..
Narrabri ..	c	84	73	0·03
Armidale ..	r	79	58	0·83
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	0·85
P. Macqrie ..	..	..	..	..
Murr'undi ..	c	83	57	0·91
Cassilis ..	b	79	67	0·64
Mus'brook ..	c	86	68	0·53
Dubbo ..	c	79	67	5·15
Mudgee ..	u	79	65	0·31
Maitland ..	g	81	70	0·05
Newcastle ..	g	77	69	0·55
Orange ..	r	72	56	0·63
Bathurst ..	u	74	57	0·40
Mt Victoria ..	r	64	56	1·25
Forbes ..	..	..	..	..
Sydney ..	r	74	65	7·53
Wentw'th ..	p	77	60	1·14
Young ..	..	..	..	..
Woll'gong ..	..	..	..	..
Moss Vale ..	r	65	59	2·25
Euston ..	..	..	..	..
Goulburn ..	r	64	59	1·40
Wagga ..	u	73	63	1·42
Cape Geo. ..	..	..	..	..
Queanb'an ..	r	68	41	1·30
Deniliquin ..	..	..	..	..
Albury ..	r	72	64	0·71
Bodalla ..	..	..	..	..
Cooma ..	r	86	55	1·58
Eden ..	p	79	63	0·58
Gabo Isld. ..	..	..	..	..

PD

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 6 February .....8·721.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

L Torrens

AS

R No report

B 3 30·02 R 81

G 28 29·98 F 75

No report BO

Generally cloudy

PM No report

N 1 30·00 R 72

S 20 30 03 R 71

W No report

No report D

A

28 30·08 R 70 A

Showery

C No report

CB

18 30·18 R 63 M

40 30·25 - 62 P

E 56 30·19 R 64

O

GO No report

65 30·22 F 61

Gale

No report

WP Bar. has risen about .10

WEATHER MAP,

7 FEB., 1878—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	c	..	50	0
Grafton ..	g	88	71	2·63
Inverell ..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri ..	..	..	..	..
Armidale ..	r	72	62	2·30
Gunnedah	o	98	63	1·64
Tamworth	..	..	..	..
P. Macqrie	r	77	70	1·65
Murr'undi	r	81	59	1·20
Cassilis ..	b	85	64	1·75
Mus'brook	g	77	63	1·02
Dubbo ..	c	86	68	0
Mudgee ..	b	83	62	5·00
Maitland ..	r	83	70	0·90
Newcastle	r	80	67	2·40
Orange ..	g	79	56	1·74
Bathurst ..	c	76	59	0·60
Mt Victoria	p	74	55	2·25
Forbes ..	b	76	63	1·30
SYDNEY ..	r	74	66	3·35
Wentw'th.	c	79	64	0·05
Young ..	c	70	56	1·74
Woll'gong	r	74	64	2·40
Moss Vale	r	66	57	2·95
Euston ..	g	68	64	0
Goulburn	r	66	54	1·85
Wagga ..	g	72	64	0·76
Cape Geo.	..	..	..	..
Queanb'an	r	68	56	1·71
Deniliquin	b	74	64	0
Albury ..	g	75	65	0·10
Bonalla ..	r	68	61	5·75
Cooma ..	r	86	54	1·63
Eden	r	63	64	7·75
Gabo Isld	..	..	..	..

PD

8 29·90 — 88

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 13 Years...52·035.

Average of previous 10 Years, for February .....6·263.

Total Rainfall from 1 Jan. to 7 February ..... 12·074.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 30·10 —

L. Torrens

B 3 30·01 F 74

G 42 29·96 F 74

No report BO

Generally cloudy

General rain

PM 56 29·95 — 70

N 6 30·05 R 67

S 20 30 01 F 68

Bar. has risen about ·10

W 42 30·06 R 70

8 30·10 — 71

A 14 30·07 — 72 D

28 30·05 F 73 A

C No report

CB 40 —

13 30·11 F 65 M

No report P

E 84 30·09 F 67 Gale

GO No report

28 30·23 R 61

23 30·11 — 65 WP

WEATHER MAP,

8 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain.
Tenterfi'ld	c	..	40	0·13
Grafton ..	r	85	69	0·61
Liverell ..	c	84	67	0·78
Bourke ..	..	..	..	..
Narrabri..	c	92	70	1·60
Armidale.	c	71	62	0·54
Gunnedah	..	..	..	..
Tamworth	..	..	..	0·20
P. Macqrie	p	72	60	3·02
Murr'undi	c	89	60	0
Cassilis ..	b	82	67	0·07
Mus'brook	u	81	66	0
Dubbo ...	u	81	66	0·72
Mudgee ..	u	82	67	0·02
Maitland..	c	80	68	0·63
Newcastle	g	78	65	0·66
Orange ...	u	77	55	0·02
Bathurst..	c	82	..	0
MtVictoria	f	72	57	0·20
Forbes ...	c	78	63	0·42
SYDNEY ...	u	72	68	0·07
Wentw'th.	b	89	66	0
Young ...	u	78	65	0
Woll'gong	r	73	65	5·13
Moss Vale	..	..	..	..
Euston ...	o	91	67	0
Goulburn	p	72	58	0·52
Wagga ...	u	83	68	0
Cape Geo.	..	..	..	..
Queanb'an	d	69	60	1·38
Deniliquin	c	75	68	0
Albury ...	u	82	65	0
Bodalla ...	..	..	..	..
Cooma ...	r	62	54	1·28
Eden	p	68	62	3·16
Gabo Isld.	..	..	..	..

PD

3 29·83 F 88

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4m 0s. MAG. VAR. 9° 25' 2" E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 8 February .. .. 12·144.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..Light brze	
23..Mod. breeze	
34..Fresh „	
48..Gale	
56..Strong gale	
65..Whole gale	
75..Storm	
90..Hurricane	

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 13 30·13 R

B 3 29·98 F 77

G 50 29·92 F 75

Showery

PM 28 29·99 R 74

N 7 29·93 F 70

S 12 29·98 F 71

C No report

E 42 30·15 R 66 Raining

GO No report

23 30·14 R 63 WP

L Torrens

No report BO

Generally cloudy

W 28 30·09 R 76

8 30·10 S 74 A 14 30·09 R 74 D

28 30·07 K 73 AA

CB 40 30·13

28 30·23 — 64

18 30·15 R 68 M

18 30·21 F 63

Forbes

WEATHER MAP,

9 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain.
Tenterfi'ld	c	..	50	0
Grafton ..	b	95	71	0·36
Inverell ..	b	91	68	0·90
Bourke ..	b	102	75	0
Narrabri..	c	94	71	0
Armidale.	o	76	62	0·24
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	c	82	62	0
Cassilis ..	o	87	68	0
Mus'brook	o	91	67	0
Dubbo ..	b	81	68	0·48
Mudgee ..	o	90	21	0·21
Maitland..	c	80	70	0
Newcastle	c	76	68	0·02
Orange ..	r	71	59	0·22
Bathurst..	o	81	63	0·43
MtVictoria	r	77	58	1·50
Forbes ..	c	76	57	0·23
SYDNEY ..	o	74	69	1·58
Wentw'th.	b	93	66	0
Young ..	c	81	66	0
Wolt'gong	r	69	65	3·70
Moss Vale ..	..	..	..	..
Euston ..	b	98	63	0
Goulburn	o	70	60	0·20
Wagga ..	b	81	70	0
Cape Geo.	c	69	66	1·02
Queanb'an	o	70	61	0
Deniliquin	b	84	67	0
Albury ..	b	77	64	0
Bodalla ..	r	68	63	3·45
Cooma ..	r	64	57	0·25
Eden	r	69	65	0·30
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 9 February ..... 13·927.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 3 30·05 R 83

G 14 30·11 R 73

28 30·05 — 90 BO

Generally cloudy

PM No report

N 6 30·05 R 71

W 14 30·07 F 78

0 30·01 F 79 A 14 30·11 R 76 D

20 30 15 R 73

28 30·01 F 73 A A

Raining

S

C

28 30·20 — 69

SMOOTH SEA

CB 23 30·03 F

8 30·12 F 64 M

No report P

Showery

E 14 30·18 R 68

O

18 30·15 F 63

GO No report

23 30·06 F 65 WP Foggy

WEATHER MAP,

11 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterf'ld	c	..	55	0·25
Grafton ..	..	..	..	..
Inverell ..	r	90	65	1·65
Bourke ..	b	113	73	0·87
Narrabri ..	u	98	65	3·30
Armidale ..	b	90	66	0·84
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	1·54
P. Macqrie ..	..	..	..	..
Murr'undi ..	b	86	58	1·10
Cassilis ..	b	89	66	0·75
Mus'brook ..	b	91	65	1·77
Dubbo ..	b	84	68	1·39
Mudgee ..	b	78	63	1·37
Maitland ..	b	90	69	0·87
Newcastle ..	b	79	64	0·66
Orange ..	u	71	55	0·82
Bathurst ..	c	85	56	0·63
Mt Victoria	b	72	56	1·22
Forbes ..	b	77	68	0·70
SYDNEY ..	b	76	66	0·25
Wentw'th.	b	92	62	0
Young ..	g	78	63	0·23
Wol'gong ..	b	89	64	0
Moss Vale ..	b	73	60	0·58
Euston ..	b	98	64	0·14
Goulburn ..	b	74	58	0·40
Wagga ..	r	84	67	0·30
Cape Geo. ..	b	75	65	0·10
Queanb'an ..	b	76	61	0·04
Deniliquin ..	c	87	65	1·10
Albury ..	r	91	62	1·10
Bodalla ..	..	..	..	..
Cooma ..	g	73	52	0·17
Eden	b	73	66	0·07
Gabo Isld ..	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 5m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 11 February. ..... 13·970.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 3 30·06 R 75

G No report

28 29·98 F 84 BO

Generally cloudy

P M No report

N 7 29·96 F 73

W 28 29·95 F 72

S 1 29 86 F 75

No report A 0 30·23 R 68 D rain

28 29·82 F 66 A A

C 14 30·04 F 70

CB No report

Showery

13 29·30 F 69 M

E 14 29·74 F 72

SMOOTH SEA

13 29·86 — 63 P O

GO No report

0 29·85 F 63

8 29·66 F 63 WP

Bar: has fallen about ·40

WEATHER MAP,

12 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	..	49	0
Grafton ..	b	88	72	0
Inverell ..	g	83	68	0
Bourke ..	..	..	..	..
Nartabri..	b	92	73	0
Armidale.	b	80	62	0
Gunnedah	c	93	70	0
Tamworth	..	..	..	..
P. Macqrie	c	82	65	0·10
Murr'undi	b	82	63	0
Cassilis ..	b	93	66	0·35
Mus'brook	b	95	64	0·53
Dubbo ..	b	86	68	0
Mudgee ..	b	89	64	0·80
Maitland..	b	92	68	0·48
Newcastle	b	93	67	0·54
Orange ..	b	80	51	0·33
Bathurst..	b	87	53	0·63
Mt Victoria	o	84	55	0
Forbes ..	b	79	66	1·00
SYDNEY ..	b	76	66	0·15
Wentw'th.	b	89	62	0
Young ..	b	84	59	0
Woll'gong	b	89	64	0·70
Moss Vale	b	85	60	0·32
Euston ..	b	95	65	0
Goulburn	..	..	..	..
Wagga ..	b	81	64	0·50
Cape Geo.	b	74	65	0·71
Queanb'an	c	79	59	0·20
Deniliquin	b	87	63	0
Albury ..	b	86	59	0·15
Bodalla ..	..	..	..	..
Cooma ..	b	80	53	0·16
Eden	c	78	62	0·22
Gabo Isld	..	..	..	..

PD

3 29·89 — 87

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 12 February ..... 14·118.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·03 —

L Torrens

B 3 30·03 F 81

G 14 29·97 F 85

No report BO

FINE GENERALLY

PM 0 29·85 F 74

N 4 29·90 F 75

S 4 29·93 R 76

W 14 30·07 R 73

No report A 14 30·04 F 71 D

0 29·89 R 67 AA

C 0 29·91 F 70

CB 3 30·03

23 30·05 R 62

18 30·03 R 63 M

P O

E 14 29·90 R 72

SMOOTH SEA

Bar. has risen about ·20

0 30·05 R 60

GO No report

18 29·90 R 60 WP

WEATHER MAP,

13 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	.. 47		0·50
Grafton ..	..	.. ..		..
Laverell ..	b	91	66	0
Bourke ..	c	107	77	0
Narrabri..	c	104	74	0
Armidale..	c	84	65	0
Gunnedah	b	97	71	0
Tamworth	..	..	..	..
P. Macqrie	c	81	71	0
Murr'undi	f	91	65	0·11
Cassilis ..	b	93	69	0
Mus'brook	b	88	67	0
Dubbo ..	b	88	71	0
Mudgee ..	c	93	70	0
Maitland..	c	84	70	0
Newcastle	b	74	65	0
Orange ..	b	79	59	0
Bathurst..	c	89	61	0
MtVictoria	g	82	59	0
Forbes ..	b	87	68	0
SYDNEY ..	g	80	63	0·05
Wentw'th.	c	95	66	0
Young ..	b	87	64	0
Woll'gong	b	78	67	0
Moss Vale	..	..	..	..
Euston ..	b	98	68	0
Goulburn	b	88	52	0
Wagga ..	b	91	67	0
Cape Geo.	c	73	65	0·07
Queanb'an	b	87	65	0
Deniliquin	b	92	67	0
Albury ..	b	92	59	0
Bodalla ..	b	82	61	0
Cooma ..	..	..	..	..
Eden	c	79	66	0
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W E S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 10 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 13 February. ..... 14·167.

EXPLANATION –R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·01 F –

L. Torrens

B 8 30·07 R 83

G No report

0 30·14 – 88 BO

FINE—CALM GENERALLY

P M 14 30·35 R 78

N 5 30·02 R 74

S 0 30·07 R 74

W 28 30·04 F 79 D

0 30·09 — 66 A 14 30·07 R 79

0 30·06 R 4 AA

C 14 30·05 R 70

CB 0 30·06R

8 29·96 F 70 M

8 29·96 R 67 P O

E 14 29·99 R 72

Bar. has risen about ·10

SMOOTH SEA

GO No report

0 29·98 F 66

Bar. has fallen about ·20

23 29·89 F 68 WP

WEATHER MAP,

14 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfi'ld	b	..	55	0
Grafton ..	g	97	74	0
Liverell ..	..	..	..	..
Bourke ..	b	108	66	0·15
Narrabri..	u	104	71	0·40
Armidale..	u	86	55	0
Gunnedah	c	102	70	0
Tamworth	..	..	..	..
P. Macqrie	g	82	70	0
Murr'undi	u	89	68	0
Cassilis ..	..	..	..	..
Mus'brook	c	93	71	2·00
Dubbo ..	b	92	72	0·17
Mudgee ..	b	95	71	0·29
Maitland..	c	89	73	0·04
Newcastle	c	82	68	0
Orange ..	b	84	62	0·20
Bathurst..	b	93	65	0·30
MtVictoria	c	86	64	0
Forbes ..	b	90	72	0
SYDNEY ..	g	78	70	0
Wentw'th.	r	81	65	0·03
Young ..	g	92	66	0
Woll'gong	c	80	69	0
Moss Vale	c	83	65	0
Euston ..	c	91	64	0
Goulburn	c	89	64	0
Wagga ..	c	96	70	0
Cape Geo.	f	77	68	0
Queanb'an	c	89	64	0
Deniliquin	c	97	66	0·04
Albury ..	u	97	63	0·13
Bodalla ..	o	83	65	10·78
Cooma ..	..	..	..	..
Eden	c	75	65	0·32
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 14 February. ..... 14·167.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detachedclouds
34..Fresh „		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		i—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 8 30·07 R —

L Torrens

R No report

B 8 30·09 R 77

G No report

0 30·15 R 85 BO

Generally cloudy

W 28 30·14 R 66

PM 0 30·02 F 76

N 2 29·94 F 77

S 0 29·97 F 76

0 30·16 R 70 A 0 30·10 F 71 D

0 30·08 R 69 AA

C 14 30·00 F 70

CB 13 30·17R

13 30·11 R 63 M

13 30·15 R 62 P O

E 14 29·90 F 71

Bar. has fallen about ·10

SMOOTH SEA

GO No report

8 30·14 R 67

23 29·89 S 60 WP

Bar. has risen about ·20

WEATHER MAP,

15 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	..	57	0
Grafton	..	..	..	..
Liverell	g	88	68	0·50
Bourke	o	101	71	0·10
Narrabri	..	..	..	3·50
Armidale	u	80	56	1·05
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	g	83	70	0·10
Murr'undi	g	91	62	0·30
Cassilis	u	97	68	0·39
Mus'brook	u	100	65	0·10
Dubbo	u	89	70	0·15
Mudgee	u	93	67	0·37
Maitland	d	95	68	1·65
Newcastle	r	90	..	1·70
Orange	u	81	57	0·18
Bathurst	..	..	..	..
Mt Victoria	f	85	56	0·15
Forbes	c	79	66	0·23
Sydney	u	86	65	0·10
Wentw'th.	b	89	60	0
Young	c	79	63	0
Woll'gong	c	79	62	0
Moss Vale	d	82	55	0·08
Euston	b	92	57	0
Goulburn	g	78	57	0
Wagga	g	84	68	0
Cape Geo.	g	76	65	0
Queanb'an	u	81	59	1·05
Deniliquin	b	86	50	0
Albury	u	88	61	0
Bodalla	p	80	60	0·58
Cooma	c	80	51	0·10
Eden	p	78	59	0·01
Gabo Isld.	..	..	..	..

PD

0 29·86 F 88

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 15 February ..... 14·264.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·01 F —

L Torrens

B 3 30·01 F 83

G No report

— 30·17 R 73 BO

Generally cloudy

P M 14 30·03 R 73

N 8 30·00 R 73

W 28 30·20 R 68

Raining

20 30·12 R 66

3 30·18 R 72 A 14 30·09 F 66 D

28 30·15 R 69 A A

foggy S C 42 30·09 R 65

CB — 30·18R

13 30·19 R 65 M

28 30·28 R 60 P

Showery E 14 30·19 R 63

SMOOTH SEA

GO No report

8 30·25 R 64

— 30·15 R 60 WP

Bar. has risen about ·20

WEATHER MAP,

16 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	c	78	55	0
Grafton ..	..	..	..	..
Laverell ..	b	88	67	0
Bourke ..	..	..	..	..
Narrabri..	..	..	..	..
Armidale.	o	83	60	0·06
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	r	71	54	0·32
Cassilis ..	r	73	60	1·07
Mus'brook	r	75	60	0·33
Dubbo ..	c	81	72	0·40
Mudgee ..	r	78	57	0·43
Maitland..	g	94	67	1·05
Newcastle	g	82	61	0·56
Orange ..	r	70	48	0·83
Bathurst..	r	69	50	0·75
Mt Victoria ..		..	..	..
Forbes ..	c	78	57	0·50
Sydney ..	o	69	66	0·88
Wentw'th.	b	88	60	0
Young ..	g	76	58	0
Woll'gong	c	71	63	0·59
Moss Vale	..	..	..	..
Euston ..	b	91	60	0
Goulburn	o	65	52	0
Wagga ..	b	82	63	0
Cape Geo.	g	67	63	0·41
Queanb'an	c	71	56	0
Deniliquin	b	89	65	0
Albury ..	b	89	57	0
Bodalla ..	r	80	55	1·65
Cooma ..	c	64	47	0·05
Eden	g	68	66	0·04
Gabo Isld	..	..	..	..

PD

3 29·79 F 86

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

Lat. 33° 51 41″ Long. 10h 4m 46s. Mag. Var. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6·263.

Total Rainfall from 1 Jan. to 16 February ..... 15·139.

Explanation—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passingshowers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 13 30·06 R—

R No report

L Torrens

B 3 29·99 F 75

G —30·01—·72

No report BO

Generally cloudy

P M No report

N 11 30·15 R 69

E 15 30 27 R 68

W 23 30·21 R 75

13 30·06 F 83 A 14 30·29 R 72 D

0 30·27 R 70 A A

C 42 30·36 R 66

Raining has risen about ·20

SMOOTH SEA

CB 23 30·03 F

23 30·19 F 64 P

13 30·23 R 71 M

Q

E 14 30·34 R 62 Bar.

GO No report

28 30·23 F 64

28 30·19 R 65 WP

Bar. has fallen about ·10

WEATHER MAP,

18 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	o	72	47	0·5
Grafton ..	u	79	47	0
Laverell ..	c	82	64	0·75
Bourke ..	b	98	72	0
Narrabri..	c	84	70	0
Armidale.	u	69	56	0·86
Gunnedah	c	84	60	0
Tamworth	..	..	..	0·34
P. Macqrie	r	72	67	1·28
Murr'undi	c	72	54	0·90
Cassilis ..	p	70	68	0·09
Mus'brook	g	75	59	0·49
Dubbo ..	c	76	63	0
Mudgee ..	u	77	62	0
Maitland..	u	75	69	1·38
Newcastle	c	78	66	0·08
Orange ..	c	69	53	0·02
Bathurst..	..	..	..	..
MtVictoria	p	63	47	2·62
Forbes ..	b	78	60	0
Sydney ..	p	73	65	1·05
Wentw'th.	b	93	67	0
Young ..	c	81	59	0
Woll'gong	p	73	62	0·25
Moss Vale	d	64	57	0·52
Euston ..	b	94	66	0
Goulburn	p	72	57	0·18
Wagga ..	b	84	62	0
Cape Geo.	..	..	..	..
Queanb'an	o	72	58	0
Denliquin	g	88	62	0
Albury ..	c	92	52	0
Bodalla ..	..	..	..	..
Cooma ..	c	67	53	0·06
Eden	b	74	63	0·19
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 18 February. ..... 16·139.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
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65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3 30·03 F —

L Torrens

B 8 29·97 F 73

G 56 30·03 R 71

56 30·17 — 81 BO

Generally cloudy

PM 42 30·11 S 69

N 6 30·11 F 69 Raining

W — 30·06 F 79

S 3 30·20 F 68

18 29·93 F 89 A 14 30·00 F 72 D

0 30·19 F 74 AA

C No report

CB 28 29·95 F foggy

13 30·06 F 78 P M O

E 28 30·16 F 74

SMOOTH SEA

8 29·97 F 73

GO No report

Bar. has fallen about ·20

8 30·02 F 78

8 29·86 F 70 WP

WEATHER MAP,

19 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	69	50	0·12
Grafton ..	r	84	71	1·80
Liverell ..	b	87	65	0
Bourke ..	b	99	74	0
Narrabri..	b	91	73	0
Armidale.	c	72	60	0·06
Gunnedah	b	94	48	0
Tamworth	..	..	..	..
P. Macqrie	b	77	68	0·21
Murr'undi	b	74	62	0
Cassilis ..	b	75	63	0
Mus'brook	b	83	66	0
Dubbo ..	b	83	68	0
Mudgee ..	g	86	67	0
Maitland..	b	79	69	0·15
Newcastle	b	80	67	0
Orange ..	c	76	56	0
Bathurst..	b	85	57	0
MtVictoria	b	72	56	0·16
Forbes ..	b	79	61	0
SYDNEY ..	c	76	66	0·12
Wentw'th.	c	71	63	0
Young ..	c	87	62	0
Woll'gong	b	86	61	0
Moss Vale	c	72	68	0·09
Euston ..	u	99	65	0·03
Goulburn	b	78	53	0
Wagga ..	r	89	71	0
Cape Geo.	c	77	67	0
Queanb'an	c	79	63	0
Deniliquin	g	89	69	0·39
Albury ..	r	93	64	0·60
Bodalla ..	b	80	60	0
Cooma ..	r	76	58	0
Eden	u	77	66	0
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

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Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 19 February ..... 16·311.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 13 30·04 R —

L Torrens

42 30·04 F 38 BO

Generally cloudy

W 42 30·03 F 63

13 30·08 R 69 A 0 29·93 F 71 D rain

14 29·94 F 67 A A

CB 18 30·18R

28 29·94 R 63 23 29·85 F 66 M P squally

34 29·88 F 59

23 29·62 F 65 WP

GO No report

Bar. has risen about ·20

Bar. has fallen about ·40

R No report

B 3 29·97 S 77

G 28 29·70 F 72

calm

PM 0 29·94 F 76

N 7 29·88 F 76

S 5 29·89 F 75

Showery

C 28 29·88—72

E 14 29·80 F 69

SMOOTH SEA

WEATHER MAP,

20 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	c	89	50	0·60
Grafton ..	g	93	56	0·05
Inverell ..	b	88	70	0
Bourke ..	c	107	73	0
Narrabri..	c	99	75	0·20
Armidale..	g	79	63	0·19
Gunnedah	b	100	70	0·09
Tamworth ..	..	..	..	..
P. Macqrie	c	79	68	0·50
Murr'undi	c	85	70	0
Cassilis ..	b	89	64	0
Mus'brook	b	95	67	0·24
Dubbo ..	b	88	68	0·93
Mudgee ..	b	91	62	0
Maitland..	u	82	70	0·81
Newcastle	g	82	68	0·12
Orange ..	c	77	54	0·09
Bathurst..	b	88	55	0·18
Mt Victoria ..	..	..	..	..
Forbes ..	..	..	..	..
Sydney ..	u	79	68	0·10
Wentw'th.	c	84	58	0
Young ..	b	81	56	0·58
Woll'gong	b	82	65	0
Moss Vale	g	78	58	0·03
Euston ..	b	87	59	0
Goulburn	r	78	41	0
Wagga ..	b	78	59	0·54
Cape Geo.	c	79	65	0·06
Queanb'an	u	76	61	0·46
Deniliquin	c	81	56	0·02
Albury ..	b	82	53	0·45
Bodalla ..	c	83	57	0·54
Cooma ..	g	71	51	0·40
Eden	b	74	59	0
Gabo Isld ..	..	..	..	..

PD

18 29·82 ... 88

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 20 February . ..... 16·408.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detachedclouds
34..Fresh ,,		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		i—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·06 R —

L Torrens

B 8 29·96 F 83

G 14 29·91 R 75

42 30·14 R 77 BO

Generally cloudy

PM 28 30·06 R 75

N 64 29·97 R 72

W 14 30·18 R 70

S 9 30·02 R 69

3 30·14 R 68 A 14 30·13 R 63 D

0 30·03 R 67 AA

rain

C 42 30·05 R 66

CB 13 30·13F

13 30·10 R 65 M

8 30·01 R 63 P

E 28 29·99 R 70

about 20

SMOOTH SEA

GO No report

8 30·09 R 62

18 29·92 R 60 WP has risen

Bar.

WEATHER MAP,

21 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	r	85	55	2·00
Grafton	r	94	70	0·37
Inverell	g	91	68	0 34
Bourke	b	99	70	0
Narrabri	u	92	70	0
Armidale	u	77	62	0·21
Gunnedah	b	101	69	0
Tamworth	..	..	..	..
P. Macqrie	p	78	68	0·14
Murr'undi	u	85	59	0
Cassilis	b	89	60	0
Mus'brook	u	84	64	0
Dubbo	b	84	68	0
Mudgee	u	91	65	0
Maitland	c	79	70	0
Newcastle	g	80	68	0
Orange	g	78	57	0
Bathurst	g	89	58	0
Mt Victoria	f	71	54	0
Forbes	b	81	59	0
SYDNEY	g	71	65	0·04
Wentw'th	c	88	56	0
Young	b	85	59	0
Woll'gong	b	73	63	0
Moss Vale	c	70	56	0·03
Euston	b	70	51	0
Goulburn	b	71	56	0
Wagga	b	84	59	0
Cape Geo.	c	71	64	0
Queanb'an	c	79	59	0
Deniliquin	b	80	53	0
Albury	b	85	52	0
Bodalla	c	76	40	0
Cooma	g	76	54	0
Eden	b	74	59	0
Gabo Isld	..	..	..	..

PD

3 29·81 F 81

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 21 February ..... 16·450.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18

L Torrens

B 8 30·05 R 82

G —30·07 R 73

—30·16 R 79 BO

Generally cloudy

PM 0 30·08 R 70

Raining

N 7 29·94 F 70

S 2 30·08 R 71

W 14 30·06 F 74

8 29·95 F 84 A 0 30·11 F 74 D

0 30·07 R 67 AA

C 0 30·19 R 70

CB 18 29·92

0 29·98 F 63

18 29·99 F 70 M

P O

E 14 29·98 S 74

Bar. has risen about ·10

SMOOTH SEA

GO No report

0 29·98 F 68

13 29·87 F 66 WP

WEATHER MAP,

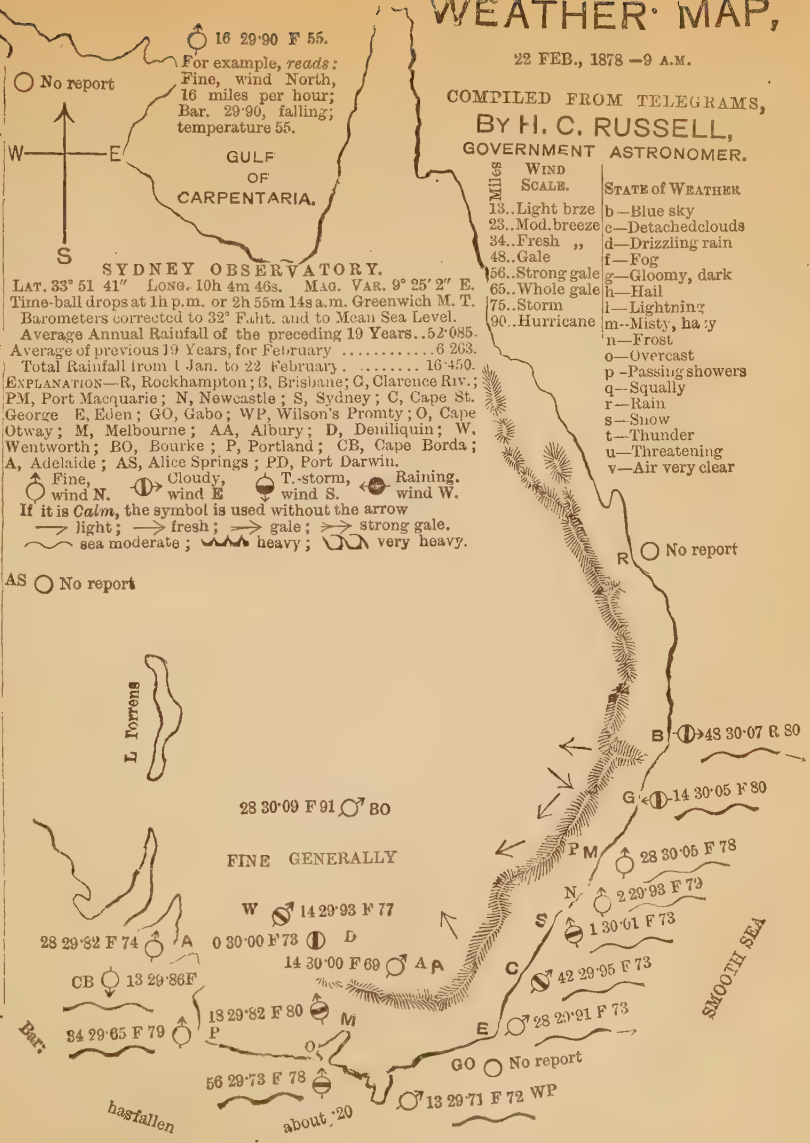
22 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	70	45	0
Grafton ..	g	83	..	0·34
Liverell ..	c	87	68	0
Bourke ..	b	104	74	0
Narrabri..	b	102	76	0
Armidale.	b	76	64	0
Gunnedah	b	105	72	0
Tamworth	..	..	..	..
P. Macqrie	b	79	70	0·14
Murr'undi	o	86	62	0
Cassilis ..	b	87	65	0
Mus'brook	o	88	67	0
Dubbo ...	u	84	68	0
Mudgee ..	b	93	66	0
Maitland..	b	82	70	0
Newcastle	b	81	70	0
Orange ...	b	79	57	0
Bathurst..	b	88	58	0
Mt Victoria	b	75	56	0
Forbes ...	c	84	68	0
SYDNEY ...	g	77	69	0
Wentw'th.	g	98	72	0·03
Young ...	b	87	60	0
Woll'gong	b	82	65	0
Moss Vale	..	..	..	..
Euston ...	u	104	63	0
Goulburn	b	83	56	0
Wagga ..	b	91	65	0
Cape Geo.	c	77	67	0
Queanb'an	b	84	60	0
Deniliquin	g	89	65	0
Albury ..	b	88	55	0
Bodalla ..	o	80	60	0
Cooma ..	b	81	48	0
Eden	b	76	64	0
Gabo Isld.	..	..	..	..



Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

23 FEB., 1878—9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain
Tenterf'ld	r	85	67	0·12
Grafton ..	..	..	..	..
Liverpl ..	..	..	..	..
Bourke ..	b	109	75	0
Narrabri..	o	104	75	1·07
Armidale.	r	84	66	3·15
Gunnedah ..		..	..	..
Tamworth ..		..	..	..
P. Macqrie ..		..	..	..
Murr'undi	b	92	64	1·53
Cassilis ..	b	97	60	0
Mus'brook	b	97	76	0·13
Dubbo ..	b	91	75	0
Mudgee ..	o	97	69	0·23
Maitland..	b	89	77	0
Newcastle	b	83	72	0
Orange ..	c	83	61	0
Bathurst..	b	94	63	0
Mt Victoria	b	84	56	0
Forbes ..	b	88	73	0
SYDNEY ..	b	84	73	0
Wentw'th.	b	104	64	0
Young ..	b	93	69	0
Woll'gong	b	83	70	0
Moss Vale	..	..	..	..
Euston ..	b	100	67	0
Goulburn	b	90	76	0
Wagga ..	b	94	70	0
Cape Geo.	c	80	70	0
Queanb'an	b	90	65	0
Deniliquin	o	92	73	0
Albury ..	o	96	66	0·10
Bodalla ..	b	86	67	0
Cooma ..	b	88	61	0
Eden	b	80	67	0
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E — S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 23 February ..... 16·450.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS

L Torrens

42 30·05 F 84 BO

FINE GENERALLY

W 14 30·00 R 77 Thunder and Rain

18 29·90 R 62 A 14 29·92 F 74 D

28 29·79 F 75 AA

CB

28 29·71 R 63 P 13 29·71 F 75 M

O

Raining

R

B

G No report

PM No report

N 4 29·80 F 76

S 4 29·80 F 83

C 28 29·75 F 80

E 14 29·65 F 75

SMOOTH SEA

GO No report

23 29·57 F 64 WP

Bar. has fallen about ·20

WEATHER MAP,

25 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	c	79	54	0
Grafton	u	93	67	0
Laverell	c	85	64	0·48
Bourke	b	82	59	1·64
Narrabri	c	96	67	0
Armidale	u	78	56	0·17
Gunnedah	c	92	62	0·03
Tamworth	..	..	..	..
P. Macqrie	g	80	64	0·03
Murr'undi	b	80	53	0
Cassilis	..	..	..	..
Mus'brook	b	93	59	0
Dubbo	b	87	61	0
Mudgee	b	94	61	0
Maitland	b	93	..	0·08
Newcastle	b	89	67	0
Orange	b	72	48	0·02
Bathurst	b	91	51	0
Mt Victoria	..	..	..	..
Forbes	b	78	57	0
SYDNEY	c	73	67	0
Wentw'th.	b	85	46	0
Young	b	71	56	0
Woll'gong	b	80	63	0
Moss Vale	b	73	53	0
Euston	b	91	44	0
Goulburn	c	89	50	0
Wagga	b	89	54	0
Cape Geo.	c	69	61	0
Queanb'an	c	89	55	0·36
Deniliquin	b	91	49	0
Albury	b	87	46	0
Bodalla	..	..	..	..
Cooma	g	75	50	0·10
Eden	b	73	58	0
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 25 February . ..... 16·451.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..Light brze	
23..Mod. breeze	
34..Fresh „	
48..Gale	
56..Strong gale	
65..Whole gale	
75..Storm	
90..Hurricane	

STATE of WEATHER
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

No report

AS No report

L Torrens

42 30·29 R 67 BO

FINE GENERALLY

W 14 30·37 R 62

3 30·33 R 71 A 14 30·37 R 60 D

0 30·30 R 65 A A

CB No report

13 30·34 R 63 M

8 30·37 — 65 P

8 30·35 — 65

has risen

Barr.

B 8 30·18 — 73

G 42 30·17 — 71

P M 14 30·23 — 67

N 5 30·25 R 74

S 7 30·30 R 73

C 28 30·27 R 63

E 14 30·31 R 63

GO No report

0 30·21 R 60 WP

about ·50

SMOOTH SEA

WEATHER MAP,

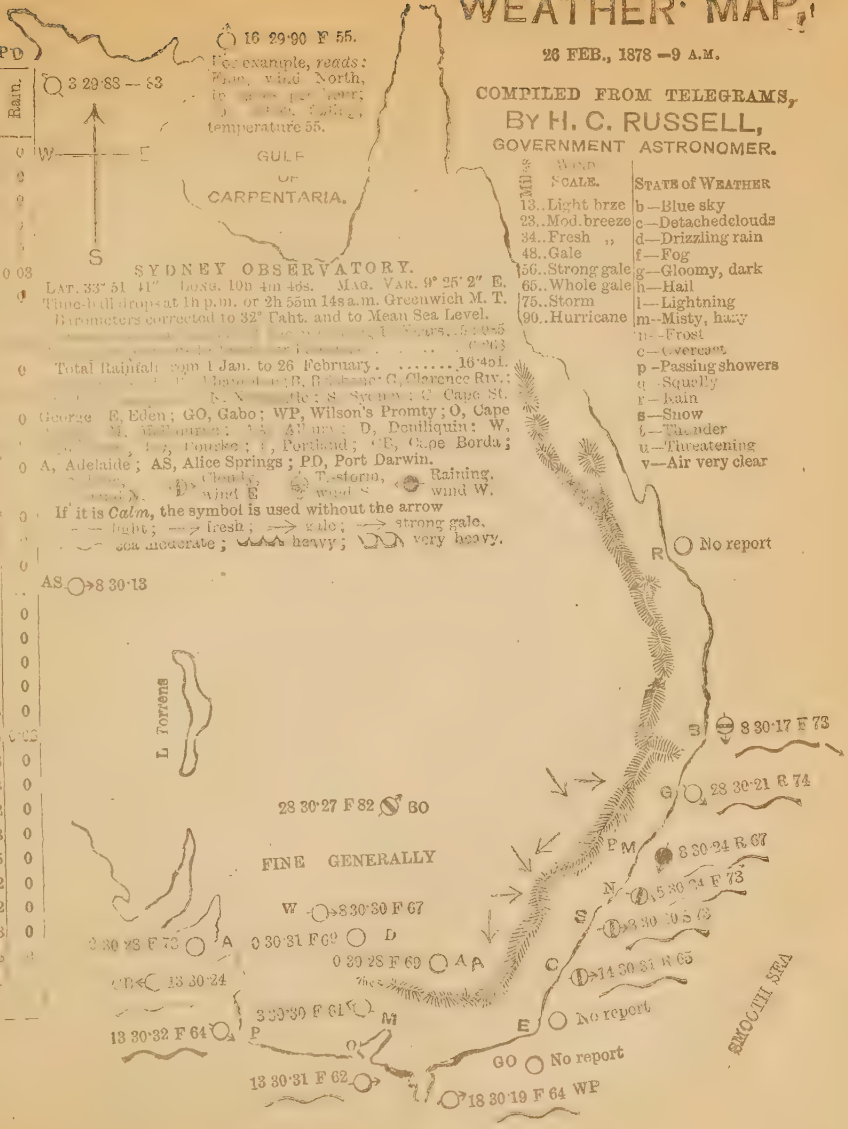
26 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	67 53		0
Grafton ..	b	84 66		0
Inverell ..	b	[illegible] 59		0
Bourke ..	c	91 62		0
Narrabri..	b	91 67		0
Armidale.	c	78 56		0 03
Gunnedah	c	91 64		0
Ta[illegible]				
P[illegible]				
Murr'undi	c	75 58		0
Cassilis .	[illegible]			
Mus'brook	g	82 61		0
Dubbo ..	[illegible]			
Mudgee ..	g	91 61		0
Maitland				
Newcastle	g	91 66		0
Orange ..	[illegible]			
Bathurst..	g	85 52		0
Mt Victoria	c	84 48		..
Forbes ..	b	81 62		0
SYDNEY ..	c	76 68		0
Wentw'th.	b	83 54		0
Young ..	b	80 57		0
Woll'gong	b	73 55		0
Moss Vale	c	72 55		0 03
Euston ..	b	87 66		0
Goulburn	c	78 53		0
Wagga ..	b	84 62		0
Cape Geo.	p	74 63		0
Queanb'an	c	82 55		0
Deniliquin	b	.. 52		0
Albury ..	b	86 52		0
Bodalla ..	c	76 53		0
C[illegible] ..	g	75 48		[illegible]
Eden				
Gabo Isld				



Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

27 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	c	66	52	0
Grafton	b	87	63	0
Inverell	b	81	56	0
Bourke	..	..	..	..
Narrabri	c	84	46	0
Armidale	u	69	56	0·03
Gunnedah	b	92	61	0
Tamworth	..	..	..	..
P. Macqrie	p	76	63	0·33
Murr'undi	b	74	53	0
Cassilis	c	87	60	0
Mus'brook	g	83	60	0
Dubbo	b	82	63	0
Mudgee	b	84	59	0
Maitland	c	79	61	0
Newcastle	b	83	67	0·35
Orange	b	73	51	0
Bathurst	b	82	68	0
Mt Victoria	b	70	47	0
Forbes	b	80	65	0
SYDNEY	g	75	63	0
Wentw'th.	b	90	59	0
Young	b	81	56	0
Wol'gong	b	74	60	0
Moss Vale	p	70	52	0·02
Euston	b	97	60	0
Goulburn	g	76	47	0
Wagga	b	86	62	0
Cape Geo.	p	74	61	0·07
Queanb'an	b	78	54	0
Deniliquin	b	92	61	0
Albury	b	84	54	0
Balalla	c	79	54	0
Cooma	b	80	44	0
Eden	b	73	61	0
Gabo Isld	..	..	..	..

PD No report

W E S

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for February .....6 263.
Total Rainfall from 1 Jan. to 27 February . ..... 16·451.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 8 30·13 F 75

G 42 30·17 F 73

No report BO

FINE GENERALLY

PM 14 30·25 R 65

Showery

N 8 30·25 R 68

W 14 30·22 R 72

S 6 30·32 R 68

0 30·21 F 77 A 28 30·34 R 74 D

14 30·32 R 70 A

Showery

C 28 30·32 R 65

CB No report

E 14 30·33 — 71

SMOOTH SEA

13 30·26 F 72 M

Bar.

18 30·24 F 63 P

GO No report

Foggy

13 30·24 F 67

23 30·16 F 65 WP

hasfallen

about 10

WEATHER MAP,

28 FEB., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfi'ld	b	72	53	0
Grafton ..	p	88	56	0·04
Liverell ..	b	81	56	0
Bourke ..	b	93	63	0
Narrabri..	b	90	66	0
Armidale.	c	68	55	0
Gunnedah	b	100	62	0
Tamworth	..	..	..	..
P. Macqrie	b	80	63	0·21
Murr'undi	b	72	58	0
Cassilis ..	b	81	64	0
Mus'brook	b	82	61	0
Dubbo ..	b	82	65	0
Mudgee ..	b	89	61	0
Maitland..	c	79	65	0·36
Newcastle	c	84	66	0·53
Orange ..	b	72	50	0
Bathurst..	c	79	53	0
Mt Victoria	p	71	51	0·45
Forbes ..	b	86	69	0
SYDNEY ..	p	76	63	0·41
Wentw'th.	b	100	68	0
Young ..	b	78	59	0
Woll'gong	b	74	62	0
Moss Vale	..	..	..	..
Euston ..	b	104	62	0
Goulburn	u	72	55	0
Wagga ..	b	85	62	0
Cape Geo.	c	72	63	0·03
Queanb'an	b	78	55	0
Deniliquin	b	92	66	0
Albury ..	b	91	55	0
Bodalla ..	c	82	52	0
Cooma ..	b	77	43	0
Eden	b	79	60	0
Gabo Isld	..	..	..	..

PD

3 29·86 — 88

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for February .....6 263.

Total Rainfall from 1 Jan. to 28 February . ..... 16·860.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 13 30·13 —

L Torrens

B 18 30·15 R 62

G 30·17 S 74

Showery

56 30·31 — 76 BO

FINE GENERALLY

P M 28 30·25 S 73

N 6 30·25 S 72

S 1 30·32 S 70

W 28 30·28 F 80

No report A 14 30·38 R 75 D

0 30·35 R 63 A

C 28 30·39 R 67

CB 18 30·19

23 30·27 R 73 M

E 0 30·21 F 74

SMOOTH SEA

0 30·25 R 66 P

Foggy

Q

GO No report

0 30·24 S 77

18 30·14 F 68 WP

WEATHER MAP,

1 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain.
Tenterfield	g	70	52	0·30
Grafton ..	c	87	64	0·34
Liverell ..	b	80	57	0
Bourke ..	c	93	71	0
Narrabri ..	b	90	66	0
Armidale,	u	68	55	0
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	p	78	64	0·15
Murr'undi	b	74	58	0
Cassilis ..	b	87	67	0
Mus'brook	b	82	58	0
Dubbo ..	b	83	65	0
Mudgee ..	b	89	57	0
Maitland..	b	79	62	0
Newcastle	b	79	69	0
Orange ..	b	72	54	0
Bathurst..	..	..	..	..
Mt Victoria	c	69	49	0·16
Forbes ..	..	..	..	..
SYDNEY ..	g	75	62	0·12
Wentw'th.	b	97	66	0
Young ..	b	81	60	0
Woll'gong	c	76	62	0
Moss Vale	..	..	..	..
Euston ..	b	101	64	0
Goulburn	b	78	55	0
Wagga ..	b	86	62	0
Cape Geo.	b	77	63	0
Queanb'an	b	84	58	0
Deniliquin	b	92	64	0
Albury ..	b	92	55	0
Bodalla ..	b	83	52	0
Cooma ..	o	78	46	0
Eden ..	..	..	..	..
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 1 March..... ..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS

L Torrens

R

B 8 30·12 F 75

G 42 30·06 F 74

Showery

PM 14 30·23 F 67

N 5 30·19 F 73

S 2 30·[illegible] F 69

C 0 30·28 F 63

E No report

GO No report

WP

42 30·30 F 75 BO

FINE GENERALLY

W 28 30·27 F 78

13 30·18 — 87 A 14 30·34 F 77 D

0 30·33 F 69 AA

CB

P M

SMOOTH SEA

WEATHER MAP,

2 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfield	o	82	58	0
Grafton ..	b	88	65	0·15
Inverell ..	b	81	56	0
Bourke ..	c	94	71	0
Narrabri..	b	90	68	0
Armidale.	b	71	55	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	78	63	0·03
Murr'undi	o	75	54	0·16
Cassilis ..	c	83	61	0
Mus'brook	b	84	59	0
Dubbo ..	b	83	65	0
Mudgee ..	c	87	60	0
Maitland..	b	79	64	0
Newcastle	c	80	67	0·05
Orange ..	b	73	53	0
Bathurst..	b	80	51	0
Mt Victoria ..	..	..	..	..
Forbes ..	b	85	64	0
SYDNEY ..	b	75	64	0
Wentw'th.	b	100	63	0
Young ..	..	..	..	..
Woll'gong	b	77	63	0
Moss Vale	b	77	54	0·59
Euston ..	b	101	58	0
Goulburn	b	82	50	0
Wagga ..	b	89	59	0
Cape Geo.	b	76	62	0
Queanb'an	b	85	56	0
Deniliquin	b	96	62	0
Albury ..	b	94	52	0
Bodalla ..	..	..	..	..
Cooma ..	m	83	45	0
Eden	b	78	60	0
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 2 March..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS

L Torrens

Bar. fallen generally about ·10

42 30·26 F 76 BO

FINE GENERALLY

B 8 30·16 R 74

G 42 30·17 R 77

PM 14 30·22 F 73

N 3 30·20 R 74

S 2 30·25 F 72

W 14 30·23 F 77

13 30·11 F 91 A — 30·30 F 77 D

0 30·26 F 70 AA

FOGGY

C 14 30·15 F 70

SMOOTH SEA

CB No rept.

13 30·12—80 M

34 30·08 — 75 P

E 14 30·13 — 71

GO No report

18 30·09 — 83

0 30·00½ — 76 WP

WEATHER MAP,

4 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterd'ld	g	67	58	0
Grafton ..	g	98	69	0
Inverell ..	..	..	..	..
Bourke ..	u	90	73	0
Narrabri ..	..	..	..	..
Armidale.	u	76	58	0·06
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie ..	..	..	..	..
Murr'undi .	..	..	..	..
Cassilis ..	b	85	59	0
Mus'brook	b	97	61	0
Dubbo ..	b	84	68	0
Mudgee ..	u	89	65	0·03
Maitland..	b	82	65	0
Newcastle	b	80	65	0
Orange ..	g	77	55	0
Bathurst..	b	85	56	0
Mt Victoria	b	77	54	0
Forbes ..	..	..	..	..
SYDNEY ..	c	78	66	0
Wentw'th.	b	102	70	0
Young ..	b	87	58	0
Woll'gong	b	78	63	0
Moss Vale	b	82	56	0
Euston ..	b	108	56	0
Goulburn	b	87	50	0
Wagga ..	b	95	57	0
Cape Geo.	b	79	65	0
Queanb'an	b	90	57	0
Deniliquin	b	101	62	0
Albury ..	b	97	53	0
Bodalla ..	b	90	54	0
Cooma ..	b	89	44	0
Eden	b	79	62	0
Gabo Isld	..	..	..	..

PD

8 29·83 — 89

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 4 March..... ..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles.	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

L. Torrens

42 30·24 F 88 BO

CALM—FINE GENERALLY

Bar. has fallen about ·10

W 28 30·15 F 85

13 30·01 F 92 A

0 30·22 F 67 D

0 30·23 F 71 A

CB No rept.

8 30·12 F 79 M

8 30·05 F 72 P

O

8 30·09 S 77

No report WP

GO No report

E 14 30·13 S 73

C 14 30·19 R 72

S 1 30·20 F 74

N 0 30·24 R 74

PM No report

G 14 30·20 R 75

B 8 30·18 R 76

R No report

SMOOTH SEA

WEATHER MAP,

5 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterd'ld	b	70	42	0
Grafton ..	c	93	65	0·12
Inverell ..	b	87	64	0
Bourke ..	c	100	77	0
Narrabri..	..	..	..	..
Armidale.	b	74	61	0·02
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	81	69	0·05
Murr'undi	..	..	..	..
Cassilis ..	b	91	62	0
Mus'brook	b	90	64	0
Dubbo ..	b	86	71	0
Mudgee ..	b	94	68	0
Maitland..	b	84	65	0
Newcastle	b	81	68	0
Orange ..	b	79	56	0
Bathurst..	b	86	56	0
Mt Victoria	b	78	54	0
Forbes ..	b	87	45	0
SYDNEY ..	b	78	67	0
Wentw'th.	b	87	60	0
Young ..	b	87	67	0
Wol'gong	b	87	67	0
Moss Vale	b	84	60	0
Euston ..	u	101	81	0
Goulburn	b	86	56	0
Wagga ..	b	95	69	0
Cape Geo.	b	93	70	0
Queanb'an	b	86	62	0
Deniliquin	c	100	73	0
Albury ..	b	90	61	0
Bodalla ..	b	91	59	0
Cooma ..	c	85	46	0
Eden	b	80	65	0
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 5 March..... ..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

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light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B 8 30·16 F 80

G 14 30·05 F 73

42 30·19 F 83 BO

FINE—CALM GENERALLY

PM 14 30·17 — 75

N 4 30·10 F 71

S 5 30·12 F 76

W No report

0 30·03 R 72

A 0 30·08 F 84 D

U 30·12 F 73 AA

CB 23 30·04

C No report

18 29·99 F 79 M

E 28 30·01 F 75

28 30·02 F 67 P

O

GO No report

S 30·00 F 69

No report WP

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP,

6 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	72	41	0
Grafton ..	b	93	66	0
Laverell ..	b	85	44	0
Bourke ..	u	109	81	0
Narrabri..	b	98	72	0
Armidale.	b	78	60	0
Gunnedah	b	88	67	0
Tamworth ..	..	..	..	..
P. Macqrie	m	81	65	0
Murr'undi	b	82	64	0
Cassilis ..	b	93	65	0
Mus'brook	b	96	67	0
Dubbo ..	u	88	74	0
Mudgee ..	g	95	67	0
Maitland..	b	86	70	0
Newcastle	b	84	67	0
Orange ..	c	84	59	0
Bathurst..	g	89	63	0
Mt Victoria	g	74	62	0
Forbes ..	g	91	76	0
SYDNEY ..	u	78	70	0
Wentw'th.	u	80	65	1·03
Young ..	g	93	79	0
Woll'gong	c	79	67	0
Moss Vale	o	85	65	0
Euston ..	p	86	62	1·74
Goulburn	g	91	65	0
Wagga ..	u	100	75	0
Cape Geo.	..	..	..	..
Queamb'an	c	91	70	0
Deniliquin	c	96	55	0
Albury ..	d	90	70	0·05
Bodalla ..	c	87	62	0
Cooma ..	c	91	63	0
Eden	u	77	68	0
Gabo Isld	..	..	..	..

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

9 29·75 -- 87

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 6 March..... ..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 8 30·13 F 76

G 28 30·12 R 83

FINE

14 30·18 F 86 BO

CALM GENERALLY

Showery

CLOUDY

PM 14 30·08 F 75

N 2 30·00 F 74

S 15 30·10 F 74

W 28 30·16—69

3 30·16 R 66 A

0 30·39 R 68 D rain

— 30·13 R 74 AA

C No report

SMOOTH SEA

CB 28 30·18R

Bar. has risen about ·20

8 30·20 R 62 M

28 30·27 R 67 P

E 14 30·10 R 70

8 30·21 R 61

GO No report

23 30·11— 59 WP

Showery

WEATHER MAP,

7 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain.
Tenterf'ld	b	70	52	0
Grafton ..	b	95	66	0
Inverell ..	b	88	66	0
Bourke ..	..	..	..	..
Narrabri..	b	97	75	0
Armidale.	b	81	60	0
Gunnedah	b	102	72	0
Tamworth	..	..	..	..
P. Macqrie	b	82	67	0
Murr'undi	c	88	67	0
Cassilis ..	b	91	72	0
Mus'brook	b	97	70	0
Dubbo ..	b	91	77	0
Mudgee ..	c	98	68	0
Maitland..	g	87	73	0
Newcastle	g	88	69	0
Orange ..	..	..	..	..
Bathurst..	g	87	67	0
Mt Victoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	g	76	71	0
Wentw'th.	g	83	65	0
Young ..	g	88	72	0
Wol'gong	c	88	69	0
Moss Vale	c	79	65	0·11
Euston ..	u	83	62	0
Goulburn	u	86	65	0·29
Wagga ..	g	89	74	0
Cape Geo.	c	73	68	0
Queanb'an	u	89	69	0
Deniliquin	c	84	65	0
Albury ..	g	89	69	0·08
Bodalla ..	p	81	57	0
Cooma ..	r	75	61	1·82
Eden	u	70	65	0·28
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 7 March..... ..... 16·978.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles Wind Scale.	State of Weather
13..Light brze	b—Blue sky
23..Mod. breeze	c—Detached clouds
34..Fresh ,,	d—Drizzling rain
48..Gale	f—Fog
56..Strong gale	g—Gloomy, dark
65..Whole gale	h—Hail
75..Storm	i—Lightning
90..Hurricane	m—Misty, hazy
	n—Frost
	o—Overcast
	p—Passing showers
	q—Squally
	r—Rain
	s—Snow
	t—Thunder
	u—Threatening
	v—Air very clear

R No report

AS 8 30·03 — 80

L Torrens

FINE

B 8 30·12 F 73

G 14 30·12 S 82

No report BO

CALM GENERALLY

P M 14 30·01 F 71

N 2 30·04 R 83

CLOUDY

W 14 30·12 F 71

S 3 30·08 F 74

0 30·15 F 69 A

0 30·09 F 69 D

0 30·07 F 75 A A

C 0 30·05 F 70

SMOOTH SEA

CB 23 30·16 F

8 30·03 F 68 M

RAINING

E 0 30·05 F 70

13 30·09 F 65 P O

GO No report

Bar. has risen about ·20

8 30·07 F 62

18 29·94 F 62 WP

WEATHER MAP,

8 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	75	58	0
Grafton ..	b	97	67	0
Inverell ..	b	89	67	0
Bourke ..	c	108	87	0
Narrabri..	b	100	73	0
Armidale..	b	83	67	0
Gunnedah	c	101	75	0
Tamworth	..	..	..	..
P. Macqrie	b	82	71	0
Murr'undi	u	96	69	0
Cassilis ..	b	95	75	0
Mus'brook	u	101	75	0
Dubbo ..	u	93	78	0
Mudgee ..	g	98	70	0
Maitland..	u	90	74	0·09
Newcastle	g	83	61	0·02
Orange ..	b	84	51	0·22
Bathurst..	g	87	67	0·42
MtVictoria	..	..	..	..
Forbes ..	..	..	..	..
SYDNEY ..	u	79	71	0·32
Wentw'th.	..	..	..	..
Young ..	c	90	66	0·36
Woll'gong	c	78	67	0
Moss Vale	d	84	60	0·29
Euston ..	..	..	..	..
Goulburn	o	84	63	0·57
Wagga ..	g	81	65	0·96
Cape Geo.	c	81	67	0·09
Queanb'an	u	85	66	0·96
Deniliquin	..	..	..	..
Albury ..	b	93	52	0·03
Bodalla ..	p	84	63	0·90
Cooma ..	c	79	54	0·52
Eden	b	74	61	0·51
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 8 March ..... 17·298.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale. sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·02 F—

L Torrens

42 30·18 — 86 BO

CALM GENERALLY

Bar. has risen about ·20

W No report

8 30·34 R 55 A No report D

0 30·12 R 66 A

CB 13 30·31 R

18 30·19 R 64 M

28 30·20 R 63 P

18 30·16 R 61

CLOUDY

FINE

Showers

Bar. has fallen about ·10

SMOOTH SEA

B 3 30·06 F 80

G — 30·00 F 81

PM 28 30·00 F 80

N 3 30·01 F 72

S 18 30·07 S 72

C 42 30·07 R 70

E 14 30·05 S 66

GO No report

23 29·98 R 61 WP

WEATHER MAP,

9 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	75	53	0·50
Grafton	o	98	72	1·38
Inverell	b	90	67	0·01
Bourke	b	103	71	0
Narrabri	b	98	75	0
Armidale	b	82	67	0
Gunnedah	b	107	69	0·08
Tamworth	..	..	..	..
P. Macqrie	o	82	68	0
Murr'undi	o	81	61	0
Cassilis	b	84	68	0
Mus'brook	b	79	68	0
Dubbo	b	91	68	0
Mudgee	b	87	67	0·77
Maitland	c	79	72	0·02
Newcastle	b	79	68	0
Orange	b	84	53	0
Bathurst	b	87	51	0
Mt Victoria	b	72	53	0
Forbes	b	85	63	0
Sydney	b	74	67	0
Wentw'th.	c	79	55	0
Young	b	88	58	0
Woll'gong	b	74	65	0
Moss Vale	b	72	57	0·01
Euston	b	82	57	0
Goulburn	b	78	53	0
Wagga	b	85	58	0
Cape Geo.	b	75	63	0
Queanb'an	b	85	56	0
Deniliquin	b	79	55	0
Albury	b	87	52	0
Bodalla	c	70	55	0·54
Cooma	o	82	52	0
Eden	b	71	51	0
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·685.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 9 March ..... 17·298.

EXPLANATION –R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 29·97 F 73

L Torrens

B 3 30·00 F 73

G 14 29·98 F 79

56 30·22 R 75 BO

FINE GENERALLY

Foggy

PM 14 29·98 F 72

N 2 29·95 F 73 about 10

W 42 30·29 R 63

8 30·31 F 64 A 28 30·23 R 64 D

S 7 29·99 F 73

14 30·11 F 65 AA

Showery

C 29·95 F 66 has fallen

CB 13 40·30F

18 30·19 S 63 M

28 30·23 R 67 P O

E 14 29·97 F 68 Bar. SMOOTH SEA

GO No report

23 30·18 R 59

48 29·89 F 58 WP

WEATHER MAP,

11 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Centern'id	c	85	45	0
Grafton ..	c	93	66	0·21
Liverpl ..	c	83	63	0
Bourke ..	b	103	75	0
Narrabri..	c	102	75	0
Armidale..	b	84	62	0·03
Gunnedah	b	98	72	0
Tamworth ..	..	..	..	..
P. Macqrie ..	..	..	..	..
Murr'undi	u	82	61	0
Cassilis ..	c	88	66	0·15
Mus'brook	g	92	63	0
Dubbo ..	b	88	67	0
Mudgee ..	b	95	61	0
Maitland..	g	..	66	0
Newcastle	g	79	67	0
Orange ..	u	79	51	0
Bathurst..	b	86	53	0
MtVictoria ..	..	..	..	..
Forbes ..	b	83	63	0
SYDNEY ..	g	76	66	0
Wentw'th.	b	88	55	0
Young ..	b	83	61	0
Wol'gong	b	76	63	0
Moss Vale ..	..	..	..	..
Euston ..	b	91	52	0
Goulburn	b	84	58	0
Wagga ..	b	88	60	0
Cape Geo.	b	74	63	0
Queanb'an	o	88	61	0
Deniliquin	b	89	52	0
Albury ..	b	91	51	0
Bodalla ..	b	80	56	0
Cooma ..	g	80	55	0
Eden	c	70	62	0
Gabo Isld.	..	..	..	..

PD

3 29·87 – 86

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for March.....5 486.
Total Rainfall from 1 Jan. to 11 March ... . 17·928.

EXPLANATION –R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 29·90 F 85

L Torrens

B 8 30·07 R 76

G 0 30·07 R 80

42 30·13 F 87 BO

FINE—CALM GENERALLY

PM No report

N 0 30·07 R 71

S 2 30·06 R 72

C 28 30·03 R 69

E 14 29·98 R 69

W 14 30·15 F 69

3 29·04 F 80 A 0 30·05 F 72 D

0 30·04 F 70 AA

CB 13 29·92F

8 29·96 F 67 M

8 29·92 F 62 P O

0 29·94 F 65

GO No report

18 29·87 F 63 WP

Bar. has fallen about .40

SMOOTH SEA

WEATHER MAP,

12 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	b	75	50	0
Grafton	c	93	69	0
Inverell	b	88	65	0
Bourke	b	106	80	0
Narrabri	b	100	74	0
Armidale	b	80	63	0
Gunnedah	b	104	69	0
Tamworth				
P. Macquarie	b	82	71	0
Murr'undi	b	83	67	0
Cassilis	b	93	67	0
Mus'brook	b	91	61	0
Dubbo				
Mudgee	b	93	67	0
Maitland	b	82	70	0·11
Newcastle	b	80	66	0
Orange	b	82	57	0·15
Bathurst	b	85	57	0
Mt Victoria				
Forbes				
SYDNEY	b	78	68	0
Wentw'th.	b	99	59	0
Young	b	92	63	0
Woll'gong	b	81	69	0
Moss Vale				
Euston	b	99	57	0
Goulburn	b	97	69	0
Wagga	b	93	65	0
Cape Geo.	c	77	69	0
Queanb'an	b	90	63	0
Deniliquin	b	96	60	0
Albury	b	94	51	0
Bodalla	b	78	57	0
Cooma	b	89	51	0
Eden	b	75	64	0
Gabo Isld.				

PD

18 29·76 F 88

W — E

S

GULF OF CARPENTARIA.

18 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 12 March ... . 17·298.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

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light; fresh; gale; strong gale.

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Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
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65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 29·93 R 85

L. Torrens

B 3 30·05 F 70

G 14 30·06 F 82

42 30·15 R 90 BO

FINE GENERALLY

P M 30·01 —78

N 7 29·90 F 79

S 3 29·94 F 74

W 14 30·05 F 63

3 30·00 R 76 A 0 30·04 F 81 D

0 30·00 F 70 A A

C 14 29·89 F 75

CB 18 30·00R

Bar. has fallen about ·20

SMOOTH SEA

8 29·96 S 69 M

18 29·98 R 66 P O

E 14 29·87 F 75

Bar. has risen about ·10

GO No report

3 29·96 R 64 Foggy

13 29·81 F 64 WP

WEATHER MAP,

13 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	b	80	55	0
Grafton ..	b	97	70	0
Inverell ..	b	89	66	0
Bourke ..	b	108	78	0
Narrabri..	b	102	75	0
Armidale..	b	84	65	0
Gunnedah	b	107	70	0
Tamworth ..	..	..	..	..
P. Macqrie	b	84	71	0
Murr'undi	b	86	67	0
Cassilis ..	b	97	67	0
Mus'brook	b	102	69	0
Dubbo ..	b	93	74	0
Mudgee ..	b	97	66	0
Maitland..	b	92	74	0
Newcastle	b	94	73	0
Orange ..	b	83	53	0
Bathurst..	b	86	55	0
Mt Victoria	b	89	61	0
Forbes ..	..	..	..	..
SYDNEY ..	c	87	72	0
Wentw'th.	c	101	66	0
Young ..	b	90	53	0
Wol'gong	b	94	70	0
Moss Vale	b	85	61	0
Euston ..	b	110	65	0
Goulburn	b	89	55	0
Wagga ..	b	97	63	0
Cape Geo.	..	..	..	..
Queanb'an	b	91	62	0
Deniliquin	b	99	62	0
Albury ..	b	97	56	0
Bodalla ..	b	90	68	0
Cooma ..	b	91	50	0
Eden	b	83	63	0
Gabo Isld.	..	..	..	..

PD

18 29·85 R 86

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 13 March ..... 17·238.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detachedclouds
34..Fresh ,,		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 29·83 F 85

L Torrens

B No report

G 14 30·07 S 82

42 30·14 F 90 BO

FINE—CALM GENERALLY

PM 14 30·05 R 79

N 2 29·98 R 79

S 9 30·04 R 75

W 23 29·98 F 81

8 29·87 F 87 A 14 30·03 F 79 D

0 30·04 R 73 AA

C 14 30·01 R 80

CB No report

Bar. has risen about ·10

SMOOTH SEA

8 29·91 F 68 M

13 29·89 F 65 P O

E 14 29·99 R 70

Bar. has fallen about ·10

GO No report

3 29·95 F 63

23 29·85 R 65 WP

WEATHER MAP,

14 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
Tenterfield	b	80	57	0
Grafton ..	b	102	68	0
Inverell ..	b	92	72	0
Bourke ..	b	107	80	0
Narrabri..	c	108	79	0
Armidale..	b	86	65	0
Gunnedah	b	109	70	0
Tamworth ..	..	..	..	..
P. Macqrie	c	84	70	0
Murr'undi	b	89	67	0
Cassilis ..	b	97	65	0
Mus'brook	b	101	69	0
Dubbo ..	b	95	75	0
Mudgee ..	b	102	70	0
Maitland..	b	90	74	0
Newcastle	b	86	69	0
Orange ..	b	85	60	0
Bathurst..	g	88	60	0
Mt Victoria	c	88	63	0
Forbes ..	b	94	78	0
SYDNEY ..	c	87	71	0
Wentw'th.	c	108	76	0·03
Young ..	g	96	69	0
Woll'gong	c	81	71	0
Moss Vale	b	89	69	0
Euston ..	r	111	78	0
Goulburn	b	93	63	0
Wagga ..	r	98	71	0
Cape Geo.	c	80	71	0
Queanb'an	c	92	67	0
Deniliquin	g	103	77	0
Albury ..	u	102	66	0
Bodalla ..	c	85	64	0
Cooma ..	c	92	63	0
Eden	c	75	68	0
Gabo Isld.	..	..	..	..

PD

3 29·87 R 81

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·436.

Total Rainfall from 1 Jan. to 14 March ... . 17·238.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh	,,	d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3 29·67 F 85

L Torrens

B 3 30·08 — 79

G 28 30·08 R 83

56 30·10 F 90 BO

FINE—CALM GENERALLY

RAINING

W 14 29·89 F 83

Fogsey

PM 28 30·06 R 79

N 1 29·85 F 75

S 0 29·99 F 78

3 29·86 F 73 A 14 29·96 F 71 D

0 29·99 F 75 AA

C 28 29·96 F 77

CB 13 29·88

Bar. has fallen about .10

SMOOTH SEA

S 29·94 R 63 M

No report P O

E 14 29·88 F 74

3 29·92 F 63

GO No report

8 29·83 F 64 WP

WEATHER MAP,

15 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Centern'ld	o	75	49	0
Grafton ..	..	..	..	..
Inverell ..	..	..	..	..
Bourke ..	b	106	83	0
Narrabri..	..	..	..	..
Armidale..	..	..	..	..
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	83	70	0
Murr'undi	b	88	69	0
Cassilis ..	b	94	70	0
Mus'brook	b	105	71	0
Dubbo ..	b	95	77	0
Mudgee ..	b	100	68	0
Maitland..	c	94	71	0
Newcastle	c	86	73	0
Orange ..	b	88	69	0
Bathurst..	c	90	61	0
Mt Victoria	b	89	68	0
Forbes ..	..	..	..	..
SYDNEY ..	o	87	71	0
Wentw'th.	p	95	79	0·81
Young ..	b	96	71	0
Wol'gong	b	89	72	0
Moss Vale	d	91	71	0
Euston ..	r	101	52	1·66
Goulburn	b	96	66	0
Wagga ..	g	88	72	0
Cape Geo.	f	82	71	0
Queanb'an	c	88	70	0
Deniliquin	r	84	69	0·59
Albury ..	d	82	67	0·76
Bodalla ..	g	96	68	0
Cooma ..	p	81	64	0·08
Eden	u	80	68	0·20
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for March.....5·486.
Total Rainfall from 1 Jan. to 15 March ..... 17·298.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light breze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 3 30·08 S 79

G No report

56 29·98 F 89 BO

FINE GENERALLY

RAINING

W 0 29·80 F 72

PM 28 30·01 F 77

N 4 29·99 R 78

S 5 29·87 F 79

13 29·72 F 69 A

0 29·89 F 71 D

0 29·92 F 71 AA

CB 28 29·89

28 29·91 — 60 P

8 29·80 F 59 M

C 23 29·86 F 74

E 0 29·84 F 71

GO No report

13 29·95 R 58

13 29·84 R 56 WP

Showery

Barr. has fallen about .10

SMOOTH SEA

WEATHER MAP,

16 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	..	..	..	..
Grafton	b	96	68	0
Inverell	..	..	..	..
Bourke	u	105	82	0
Narrabri	..	..	..	..
Armidale	b	83	65	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	82	75	0
Murr'undi	g	83	74	0
Cassilis	b	95	73	0
Mus'brook	b	101	76	0
Dubbo	u	93	77	0
Mudgee	u	95	76	0
Maitland	b	94	77	0
Newcastle	S3	83	78	0
Orange	r	86	65	45
Bathurst	g	90	70	0
Mt Victoria	g	83	67	0
Forbes	..	..	..	..
SYDNEY	c	88	77	0
Wentw'th.	g	76	57	1·72
Young	p	87	73	0
Woll'gong	b	84	73	0
Moss Vale	c	91	73	0
Euston	b	76	54	1·64
Goulburn	u	96	71	0
Wagga	p	93	70	0
Cape Geo.	c	80	72	0
Queanb'an	c	92	96	0·06
Deniliquin	g	75	61	2·04
Albury	d	75	66	1·60
Bodalla	p	98	69	0·57
Cooma	g	78	64	0·16
Eden	b	80	69	0·97
Gabo Isld.	..	..	..	..

PD

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 16 March ..... 17·238.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..Light brze	
23..Mod. breeze	
34..Fresh ,,	
48..Gale	
56..Strong gale	
65..Whole gale	
75..Storm	
90..Hurricane	

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS

L Torrens

14 29·99 R 82 BO

CLOUDY GENERALLY

Showery

W 28 30·05 R 63

A 23 29·92 R 62 D

42 29·74 F 68 A A

CB

P M O

E

GO No report

WP

Bar. has fallen about ·50

R No report

B

G 42 29·98 — 77

P M 28 29·83 F 77

N 6 29·68 F 81

S 22 29·62 F 88

C 28 29·58 F 76

E 14 29·35 F 79

SEA HLOOWS

WEATHER MAP,

18 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain
		PD		
Tenterfi'ld	..	.. ..		..
Grafton ..	c	80	66	0·19
Inverell ..	b	88	65	0
Bourke ..	o	91	72	0
Narrabri..	c	91	64	0·68
Armidale..	b	82	65	0·19
Gunnedah	b	92	61	0
Tamworth ..	..	.. ..		..
P. Macqrie ..	..	.. ..		..
Murr'undi	g	72	55	0
Cassilis ..	c	75	55	0
Mus'brook	g	90	59	0·05
Dubbo ..	b	88	63	0·30
Mudgee ..	g	63	58	0
Maitland..	g	95	66	0·11
Newcastle	g	85	63	0·24
Orange ..	g	72	47	0
Bathurst..	g	83	47	0·12
MtVictoria	f	78	47	0·55
Forbes ..	b	87	69	0
SYDNEY ..	o	68	63	0·13
Wentw'th.	b	73	45	0
Young ..	b	81	56	0
Woll'gong	c	91	59	0
Moss Vale	g	62	52	0·09
Euston ..	b	75	47	0
Goulburn	g	79	52	0·27
Wagga ..	b	93	70	0
Cape Geo.	b	67	59	0
Queanb'an	g	84	53	0
Deniliquin	b	77	52	0
Albury ..	b	77	50	0
Bodalla ..	b	67	51	0
Cooma ..	g	69	42	0
Eden	b	68	53	0
Gabo Isld	..	.. ..		..

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 10 Years..52·685.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 18 March ... . 17·427.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B 3 30·13 R 75

G 42 20·14 R 67

42 30·24 R 73 BO

CLOUDY GENERALLY

P M No report

N 4 30·21 R 70

S 10 30·30 R 66

W — 30·30 R 52

3 30·33 R 58 A 14 30·33 R 60 D

14 30·27 R 58 A A

CB 13 30·44R

C 0 30·24 R 66

8 30·30 R 58 M

28 30·36 — 58 P

E 14 30·26 F 61

Bar. has risen about .50

SAVOOTH SEA

8 30·35 R 56

GO No report

23 30·17 R 55 WP

WEATHER MAP,

19 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	g	65	41	0
Grafton	o	87	67	0·07
Inverell	b	90	64	0
Bourke	c	97	73	0
Narrabri	c	98	68	0
Armidale	c	79	59	0·01
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	70	62	0·55
Murr'undi	o	74	55	0·29
Cassilis	b	79	62	0
Mus'brook	c	78	59	0
Dubbo	c	81	65	0
Mudgee	c	65	61	0
Maitland	b	79	63	0
Newcastle	b	82	63	0
Orange	p	73	49	0
Bathurst	g	77	45	0
Mt Victoria	b	64	50	0
Forbes	..	..	..	..
Sydney	b	71	62	0
Wentw'th.	b	76	50	0
Young	g	81	57	0
Woll'gong	b	72	59	0
Moss Vale	b	68	52	0
Euston	b	80	51	0
Goulburn	f	74	46	0
Wagga	b	81	61	0
Cape Geo.	c	70	68	0
Queanb'an	b	79	52	0
Deniliquin	b	80	55	0
Albury	b	82	55	0
Bodalla	b	76	48	0
Cooma	g	75	41	0
Eden	c	70	58	0
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 19 March ..... 17·427.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh ,,		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L. Torrens

Bar. has fallen generally about .10

28 30·20 F 78 BO

CLOUDY GENERALLY

W 28 30·24 F 69

13 30·32 F 59 A

0 30·13 F 61 D

0 30·16 F 67 A

CB 8 30·32 F

18 30·29 F 58

13 30·26F 59 M

P O

8 30·26 F 56

23 30·07 F 57 WP

GO No report

E 14 30·12 F 63

C 23 30·13 F 75

S 0 30·17 F 68

N 4 30·07 F 71

PM 14 30·16 — 68

G 23 30·19 R 67

B 8 30·16 R 74

Showery

Foggy

SMOOTH SEA

WEATHER MAP,

20 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	79	46	0·19
Grafton ..	b	88	68	0·05
Laverell ..	c	83	63	0·15
Bourke ..	g	99	69	0
Narrabri..	r	94	73	0·11
Armidale..	r	77	59	0·45
Gunnedah	g	99	65	0
Tamworth	..	..	..	..
P. Macqrie	c	76	61	0
Murr'undi	g	72	57	0·18
Cassilis ..	c	85	66	0·70
Mus'brook	g	88	68	0·14
Dubbo ..	u	80	65	0·20
Mudgee ..	u	85	67	0·56
Maitland..	r	82	68	0·03
Newcastle	g	82	64	0
Orange ..	u	66	53	0·57
Bathurst..	g	66	47	0·08
Mt Victoria ..	..	..	..	..
Forbes ..	b	75	57	0·20
Sydney ..	c	75	63	0
Wentw'th.	b	77	48	0
Young ..	b	79	65	0
Wol'gong	b	74	62	0
Moss Vale	d	74	58	0·22
Euston ..	b	91	50	0
Goulburn	g	82	55	0
Wagga ..	b	86	62	0
Cape Geo.	c	73	63	0
Queanb'an	c	83	60	0·13
Deniliquin	b	78	47	0
Albury ..	b	85	53	0
Bodalla ..	b	86	55	0
Cooma ..	b	78	41	0
Eden	u	71	60	0
Gabo Isld.	..	..	..	..

No report

16 29·90 F 56.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 56.

W E S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 20 March ..... 17·428.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B 3 30·17 R 78

G 14 30·13 F 74

Raining

P M 14 30·13 F 74

N 5 30·06 F 72

S 0 30·18 R 70

C 28 30·16 R 65

E 14 30·14 R 61

SMOOTH SEA

28 30·22 F 72 BO

CLOUDY GENERALLY

W 28 30·32 R 55

0 30·37 R 55 D

0 30·16 S 66 A

A

13 30·34 R 63

CB 18 30·33R

18 30·26 F 60

13 30·24F 59 M

P

Q

8 30·22 F 59

GO No report

13 30·05 F 59 WP

WEATHER MAP,

21 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain PD
Tenterf'ld	b	77	61	0
Grafton ..	c	90	68	0
Inverell ..	g	84	64	0·25
Bourke ..	c	91	69	0
Narrabri..	u	88	75	0·29
Armidale.	r	70	59	0·78
Gunnedah	g	82	66	0·01
Tamworth ..	..	..	..	..
P. Macqrie	b	78	65	0·35
Murr'undi	c	70	58	0
Cassilis ..	u	70	61	0
Mus'brook	g	76	66	0
Dubbo ..	..	..	..	..
Mudgee ..	b	79	58	0
Maitland..	c	79	62	0
Newcastle	b	79	60	0
Orange ..	f	75	50	0
Bathurst..	b	80	55	0
Mt Victoria	g	72	54	0
Forbes ..	b	75	57	0
SYDNEY ..	u	74	64	0
Wentw'th.	b	75	49	0
Young ..	b	83	52	0
Woll'gong	c	74	62	0
Moss Vale	..	..	..	..
Euston ..	b	80	51	0
Goulburn	u	83	56	0
Wagga ..	b	89	52	0
Cape Geo.	c	73	65	0
Queanb'an	b	88	57	0
Deniliquin	b	77	57	0
Albury ..	b	83	46	0
Bodalla ..	p	89	65	0
Cooma ..	c	82	52	0
Eden	b	69	57	0
Gabo Isld.	..	..	..	..

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

23 29·73 — 84

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 21 March ... . 17·428.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh ,,		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·17 — 74

L Torrens

Bar. has risen generally about ·10

28 30·30 R 75 BO

CLOUDY GENERALLY

Raining

B 3 30·20 R 74

G 28 30·17 R 72

P M 28 30·16 R 75

N 5 30·16 R 70

S 11 30·21 R 70

42 30·22 R 67

14 30·21 R 67

Showery

SMOOTH SEA

W 28 30·38 R 59

13 30·38 R 64 A

28 30·35 F 60 D

14 30·22 R 62 A A

CB 8 30·38 R

13 30·31R 60 M

28 30·35 R 61 P

O

8 30·32 R 60

GO No report

23 30·12 R 58 WP

E

C

WEATHER MAP,

22 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wea'r	Max.	Min.	Rain
Tenterfield	u	78	58	0
Grafton ..	p	93	69	0·40
Inverell ..	..	..	..	..
Bourke ..	p	92	73	0
Narrabri..	p	95	73	0·03
Armidale.	c	74	61	0·10
Gunnedah	c	85	67	0
Tamworth ..	..	..	..	..
P. Macqrie	r	73	68	1·12
Murr'undi	u	71	60	0
Cassilis ..	u	79	63	0
Mus'brook	g	82	62	0
Dubbo ..	..	..	..	..
Mudgee ..	p	91	64	0·24
Maitland..	r	81	36	0·15
Newcastle	r	80	65	0·18
Orange ..	c	76	51	0·20
Bathurst..	..	..	..	..
MtVictoria	r	70	53	0·45
Forbes ..	..	..	..	..
SYDNEY ..	g	75	68	0
Wentw'th.	b	78	52	0
Young ..	p	84	61	0·07
Woll'gong	g	70	62	0
Moss Vale	d	67	58	0·01
Euston ..	b	81	55	0
Goulburn	..	..	..	..
Wagga ..	b	86	63	0
Cape Geo.	..	..	..	..
Queanb'an	u	82	61	0
Deniliquin	b	80	51	0
Albury ..	b	83	54	0
Bodalla ..	o	74	58	0·64
Cooma ..	o	76	53	0
Eden	u	73	57	0
Gabo Isld.	..	..	..	..

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·96, falling; temperature 55.

8 29·75 R 79

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 22 March ... . 17·429.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS. Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh „		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·05 F 79

L Torrens

Showery

14 30·33 R 71 → 80

CLOUDY GENERALLY

Raining

B 3 30·27 R 76

G 28 30·23 R 73

P M 28 30·27 R 71

N 7 30·26 R 65

S 9 30·33 R 69

Bar. has fallen about ·10

W 28 30·34 F 61

0 30·29 F 67 A 14 30·15 F 60 D

0 30·28 R 68 A A

CB No report

8 30·32 R 58 M

23 30·34 F 61 P

C No report

E 14 30·31 R 63

Bar. has risen about ·10

SMOOTH SEA

42 30·33 R 57

GO No report

8 30·20 R 59 WP

WEATHER MAP,

23 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	c	79	59	0
Grafton	b	84	68	0·44
Laverell	..	..	..	..
Bourke	..	..	..	..
Narrabri	c	86	69	0
Armidale	b	72	60	0·09
Coonedah	b	83	59	0
Farnworth	..	..	..	..
P. Macquarie	p	79	67	0·33
Murr'undi	u	68	59	0·24
Cassilis	o	70	63	0·18
Mus'brook	o	74	62	0
Dubbo	b	81	64	0
Mudgee	u	84	63	0
Maitland	c	72	65	0·36
Newcastle	b	75	65	0·80
Orange	..	..	..	..
Bathurst	..	..	..	..
Mt Victoria	..	..	..	..
Forbes	..	..	..	..
SYDNEY	c	70	60	0·65
Wentw'th	b	85	52	0
Young	..	..	..	..
Woll'gong	c	71	59	0
Moss Vale	c	67	52	0·07
Euston	b	85	58	0
Goulburn	..	..	..	..
Wagga	b	88	60	0
Cape Geo.	c	75	62	0
Queanb'an	c	78	55	0
Deniliquin	b	85	55	0
Albury	c	83	57	0
Bodalla	b	78	53	0
Cooma	b	74	50	0
Eden	b	83	61	0
Gabo Isld.	..	..	..	..

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

PD

W — E

S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·685.

Average of previous 19 Years, for March.....5 486.

Total Rainfall from 1 Jan. to 23 March ... . 18·081.

EXPLANATION –R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g Gloomy, dark
h Hail
l—Lightning
m—Misty, hazy
n—Frost
o —Overcast
p —Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

B 3 30·26 F 78

G 14 30·22 F 72

Showery

PM 42 30·19 F 70

N 10 30·27 R 69

S 3 30·33 S 64

Fussy

C 14 30·26— 67

E 28 30·25 F 73

SMOOTH SEA

GO No report

8 30·07 F 63 WP

No report BO

CLOUDY GENERALLY

W 14 30·23 F 68

A 0 30·31 R 63 D

0 30·27 S 69 AA

CB

0 30·14 F 61 P

13 30·19 F 66 M

0 30·16 F 66

Bar. has fallen about ·20

L Torrens

WEATHER MAP,

25 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	m	70	50	0
Grafton	u	85	58	0·20
Inverell	..	..	..	..
Bourke	c	97	72	0
Narrabri	..	..	..	..
Armidale	b	70	47	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'undi	b	77	56	0
Cassilis	f	85	59	0
Mus'brook	d	86	57	0
Dubbo	b	84	61	0
Mudgee	b	94	58	0
Maitland	f	81	68	0
Newcastle	b	77	65	0
Orange	b	71	54	0
Bathurst	b	84	51	0
Mt Victoria	b	76	50	0
Forbes	..	..	..	..
SYDNEY	f	75	64	0
Wentw'th.	g	93	72	0
Young	g	88	61	0
Woll'gong	b	77	62	0
Moss Vale	b	78	58	0
Euston	o	99	72	0·17
Goulburn	b	88	51	0
Wagga	u	89	64	0
Cape Geo.	c	78	67	0
Queanb'an	b	88	57	0
Deniliquin	g	94	67	0·25
Albury	b	91	53	0
Bodalla	b	86	59	0
Cooma	b	86	49	0
Eden	u	76	65	0
Gabo Isld	..	..	..	..

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 25 March ... . 18·085.

EXPLANATION –R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

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light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B 3 30·29 R 74

G 0 30·24 R 70

rain

28 30·26 — 80 BO

FINE—CALM GENERALLY

P M No report

N 2 30·16 F 73

S 1 30·25 F 68

Foggy

W — 30·15 F 71

8 30·08 F 78 A

14 30·24 F 71 D

0 30·21 F 72 A A

C 28 30·17 F 70

CB No report

8 30·11 F 69 M

E 14 30·14 F 68

0 30·08 F 61 P

GO No report

13 30·11 F 64

8 30·11 F 63 WP

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP,

26 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	c	70	57	0
Grafton	c	86	66	0·17
Laverell	..	..	..	..
Bourke	u	101	72	0
Narrabri	u	93	73	..
Armidale	c	77	60	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	80	68	0
Murr'undi	b	82	64	0
Cassilis	g	88	64	0
Mus'brook	b	90	66	0
Dubbo	p	87	68	0·07
Mudgee	p	97	63	0
Maitland	g	83	68	0
Newcastle	c	94	67	0
Orange	..	..	..	..
Bathurst	..	..	..	..
Mt Victoria	c	78	59	0
Forbes	..	..	..	..
Sydney	g	77	67	0
Wentw'th.	r	82	69	0·12
Young	..	..	..	..
Wol'gong	c	78	69	0
Moss Vale	r	76	64	0
Euston	g	83	79	1·39
Goulburn	..	..	..	..
Wagga	r	80	60	0·58
Cape Geo.	u	77	69	0
Queanb'an	d	86	66	0·10
Deniliquin	r	78	65	1·21
Albury	r	76	63	1·29
Bodalla	r	87	57	0·57
Cooma	r	86	48	0·34
Eden	..	..	..	..
Gabo Isld	..	..	..	..

PD ○ No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for March.....5 486.
Total Rainfall from 1 Jan. to 25 March ..... 18·085.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

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13..Light brze		b—Blue sky
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65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS ○ No report

R ○ No report

L Torrens

14 30·13 F 78 BO

CLOUDY GENERALLY

Bar. has fallen about .30

Showery

Raining

B 3 30·18 F 57

G 14 30·17 F 75

P M 28 30·10 F 74

N 5 29·96 F 73

2 30·01 F 71

28 29·91 F 71

W 14 29·90 F 67

D

28 29·96 F 68 A A

A 14 29·76 F 67

13 29·82 F 76

Foggy CB 9 29·79

18 29·79 F 71 M

14 29·71 F 74 P

13 29·73 F 73

8 29·70 F 69 WP

GO ○ No report

E ○ No report

C

SMOOTH SEA

WEATHER MAP,

27 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	b	76	49	0
Grafton ..	g	90	70	0
Inverell		..	..	..
Bourke ..	..	..	..	.
Narrabri..	r	89	73	0·10
Armidale..	r	75	60	0·03
Gunnedah	r	71	66	0·14
Tamworth	..	..	..	..
P. Macqrie	g	80	70	0·03
Murr'undi	r	78	57	0
Cassilis ..	r	77	67	0·50
Mus'brook	r	90	68	0·03
Dubbo ..	p	78	68	1·71
Mudgee ..	r	72	66	1·62
Maitland..	g	83	72	0·02
Newcastle	r	81	68	0
Orange ..	r	65	54	3·80
Bathurst..	r	66	54	0·85
Mt Victoria	p	69	59	0·35
Forbes ..	p	91	69	0
SYDNEY ..	u	78	69	0·57
Wentw'th.	..	..	..	..
Young ..	r	70	64	4·10
Wol'gong	r	76	63	0
Moss Vale	o	69	63	0·96
Euston ..	u	90	60	0·08
Goulburn	c	68	64	1·12
Wagga ..	r	79	62	0·75
Cape Geo.	c	73	68	0·41
Queanb'an	r	69	64	1·00
Deniliquin	b	78	62	0·10
Albury ..	c	72	65	0·45
Bodalla ..	p	72	62	0·80
Cooma ..	p	86	48	0·16
Eden	u	69	66	0·32
Gabo Isld	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

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Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 27 March .....18·650.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

No report BO

CLOUDY GENERALLY

General rain

B 0 30·01 F 77

G 28 29·86 F 72

PM 14 29·86 F 73

N 3 29·68 F 70

S 14 29·71 F 73

C 42 29·68 F 71

E 14 29·55 — 68

Bar. has fallen about .30

SMOOTH SEA

W No report

No report A 14 29·79 R 68 D

14 29·73 F 71 A

CB No report

Raining 8 29·63 F 62 M

18 29·68 F 67 P

Showery 18 29·65 F 58

GO No report

18 30·36 F 65 WP

WEATHER MAP,

28 MAR., 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain
Tenterfield	b	75	50	0·50
Grafton ..	b	80	67	1·34
Laverell ..	..	..	..	..
Bourke ..	..	..	..	..
Narrabri..	b	76	63	1·40
Armidale..	b	70	59	0·75
Gunnedah	b	78	59	1·00
Tamworth	c	..	..	0·61
P. Macqrie	o	77	56	0·22
Murr'undi	b	72	55	2·21
Cassilis ..	b	78	55	0·87
Mus'brook	b	77	53	1·10
Dubbo ..	b	77	64	0·32
Mudgee ..	b	72	59	0·60
Maitland..	c	79	67	0·85
Newcastle	g	79	68	9·99
Orange ..	o	67	49	0·45
Bathurst..	c	69	53	0·25
Mt Victoria	b	66	55	0·12
Forbes ..	b	80	67	0·56
SYDNEY ..	g	75	65	0·20
Wentw'th.	c	76	50	0
Young ..	b	69	51	2·36
Woll'gong	b	74	62	0
Moss Vale	b	71	64	0·16
Euston ..	b	77	51	0
Goulburn	c	70	50	0·53
Wagga ..	b	82	59	0
Cape Geo.	c	72	64	0·12
Queanb'an	c	68	51	1·42
Deniliquin	b	74	58	0·03
Albury ..	..	..	..	..
Bodalla ..	..	..	..	..
Cooma ..	o	67	43	0·04
Eden	b	77	56	0·86
Gabo Isld.	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 28 March .....18·852.

EXPLANATION —R, Rockhampton; B, Brisbane; G, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE OF WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

B No report

G 28 29·87 R 78

No report BO

FINE—CALM GENERALLY

PM 28 29·87 R 72

N 8 29·96 R 68

S 3 29·97 R 67

W 14 30·15 — 63

No report A 14 30·14 R 61 D

Foggy

No report AA

C 28 29·92 R 73

CB No report

13 29·95R 63 M

34 29·91 R 62 P

E 14 29·77 R 64

SMOOTH SEA

O

GO No report

28 29·87 R 61

23 29·75 R 60 WP

Bar. has risen about .30

WEATHER MAP,

29 MAR., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	c	70	45	0
Grafton	b	91	55	0
Inverell	..	..	..	..
Bourke	b	80	60	0
Narrabri	..	..	..	..
Armidale	b	72	57	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	80	63	0
Murr'undi	b	74	55	0
Cassilis	b	80	57	0
Mus'brook	b	84	60	0
Dubbo	b	78	61	0
Mudgee	c	89	58	0
Maitland	b	78	64	0·04
Newcastle	c	79	65	0
Orange	b	66	60	0
Bathurst	b	75	52	0
Mt Victoria	u	70	53	0
Forbes	b	78	58	0
SYDNEY	c	73	65	0
Wentw'th.	c	81	55	0
Young	b	70	51	0
Woll'gong	b	74	64	0
Moss Vale	g	72	58	0·02
Euston	b	80	54	0
Goulburn	b	75	50	0
Wagga	b	82	61	0
Cape Geo.	c	71	64	0
Queanb'an	c	73	53	0
Deniliquin	b	74	54	0
Albury	b	74	46	0
Bodalla	b	78	62	0
Cooma	b	61	49	0
Eden	b	72	62	0·02
Gabo Isld.	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for March.....5·486.

Total Rainfall from 1 Jan. to 29 March ... . 18·852.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B 3 30·11 — 75

G 14 30·04 R 74

14 30·23 — 66 BO

FINE GENERALLY

PM 28 30·09 R 72

N 5 30·22 R 71

S 5 30·17 R 71

W 14 30·17 R 67

3 30·04 R 67 A

D 0 30·24 R 63

14 30·15 — 57 AA

C 28 30·19 R 69

CB 13 30·05 R

13 30·08 R 66 M

E 14 30·07 R 71

34 29·98 R 66

P

13 30·01 R 64

GO No report

23 29·94 R 66 WP

Bar. has risen about ·30

SMOOTH SEA

WEATHER MAP,

30 MAR., 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	73	55	0
Grafton ..	b	95	54	0
Laverell ..	..	..	..	..
Bourke ..	c	87	64	0
Narrabri ..	c	94	84	0
Armidale .	b	75	59	0
Gunnedah	b	94	61	0
Tamworth	..	..	..	..
P. Macqrie	b	80	65	0
Murr'undi	b	74	44	0
Cassilis ..	b	85	56	0
Mus'brook	b	53	39	0
Dubbo ..	b	79	65	0
Mudgee ..	b	93	59	0
Maitland ..	b	79	61	0
Newcastle	b	77	68	0
Orange ..	c	70	53	0
Bathurst ..	b	77	53	0
Mt Victoria	b	71	53	0
Forbes ..	b	85	73	0
SYDNEY ..	c	73	62	0
Wentw'th.	b	65	51	0
Young ..	b	78	56	0
Woll'gong	b	78	63	0
Moss Vale	..	..	..	..
Euston ..	b	84	51	0
Goulburn	..	..	..	..
Wagga ..	u	82	62	0
Cape Geo.	b	72	63	0
Queanb'an	b	77	55	0
Deniliquin	b	77	51	0
Albury ..	u	80	52	0
Bodalla ..	b	78	55	0
Cooma ..	b	73	50	0
Eden	b	74	57	0
Gabo Isld.	..	..	..	..

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for March.....5·486.
Total Rainfall from 1 Jan. to 30 March .....18·852.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

42 30·21 F 77 BO

FINE GENERALLY

W 56 30·31 R 57

18 30·35 R 60 A 28 30·23 F 57 D

42 30·03 F 61 A

CB No report

squally 23 30·03 F 57 M

No report P O

40 29·97 F 55 squally

B 3 30·08 F 77

G 14 30·08 R 74

PM 14 30·03 F 72

N 4 29·97 F 70

S 0 29·97 F 63

C 28 29·99 F 67

E 28 29·84 F 68

GO No report

WP No report

Bar. has fallen about ·20

SMOOTH SEA.

WEATHER MAP.

1 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
By H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther	Max.	Min.	Rain.
Tenterf'ld	..	..	..	..
Grafton	..	..	..	..
Inverell	..	..	..	..
Bourke	b	73	52	0
Narrabri	b	91	53	0
Armidale	b	75	45	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	73	55	0
Murr'undi	b	74	49	0
Cassilis	b	72	43	0
Mus'brook	b	91	49	0
Dubbo	b	80	53	0
Mudgee	b	76	49	0
Maitland	b	83	57	0
Newcastle	b	70	54	0
Orange	c	59	41	0
Bathurst	b	75	41	0
Mt Victoria	b	76	38	0
Forbes	b	70	59	0
SYDNEY	b	72	57	0
Wentw'th.	g	69	53	0
Young	..	..	..	..
Wol'gong	b	80	55	0
Moss Vale	b	65	47	0
Euston	g	69	49	0
Goulburn	c	76	44	0
Wagga	c	81	60	0
Cape Geo.	..	..	..	..
Queanbn	b	70	46	0
Deniliquin	b	75	45	0
Albury	b	69	45	0·20
Bodalla	b	74	41	0
Cooma	b	62	34	0
Eden	b	68	57	0
Gabo Isld	..	..	..	..

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 1 April .....18·852.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 18 30·18 — 65

L Torrens

0 30·41 R 62 BO

FINE—CALM GENERALLY

W 28 30·42 R 56

8 30·38 R 60 A 14 30·35 R 56 D

28 30·17 R 57 A A

CB 13 30·35R

13 30·19R 58 M

23 30·23 R 58 P

28 30·15 R 58

34 29·92 R 58 WP

Showery

has fallen about ·20

Bar.

R No report

B No report

G 14 30·12 R 73

P M 14 30·10 R 64

N 1 30·08 R 63

S 16 30·12 R 62

C No report

E 14 29·94 R 66

GO No report

SMOOTH SEA

WEATHER MAP,

2 APRIL, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min.	Rain.
Tenterfield	b	78	63	0
Grafton ..	g	91	64	0·30
Inverell ..	b	84	55	0
Bourke ..	b	78	54	0
Narrabri..	b	82	51	0
Armidale.	f	69	46	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	73	56	0
Murr'undi.	b	70	50	0
Cassilis ..	b	79	42	0
Mus'brook	b	79	49	0
Dubbo ..	b	82	73	0
Mudgee ..	b	81	48	0
Maitland..	b	72	50	0
Newcastle	b	73	55	0
Orange ..	b	63	40	0
Bathurst..	b	65	39	0
Mt Victoria	b	66	40	0
Forbes ..	b	73	63	0
SYDNEY ..	v	73	56	0
Wentw'th.	c	74	48	0
Young ..	b	63	41	0
Woll'gong	b	78	55	0
Moss Vale	b	67	45	0
Euston ..	c	73	51	0
Goulburn	b	68	41	0
Wagga ..	b	79	65	0
Cape Geo.	b	72	55	0
Queanb'an	b	68	42	0
Deniliquin	b	70	47	0
Albury ..	b	66	44	0
Bodalla ..	b	81	47	0
Cooma ..	b	77	32	0
Eden	b	72	55	0
Cape Isld	..	..	..	..

PD

18 29·86 — 84

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 2 April ..... 18·852.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 18 30·15 F 63

L Torrens

B 3 30·10 S 79

G 28 30·06 F 74

— 30·36 F 60 BO

FINE GENERALLY

Foggy

P M 14 30·09 F 67

N 5 30·10 R 66

S 10 30·12 S 62

C 42 30·04 — 61

E 14 30·13 R 62

SMOOTH SEA

Foggy

W 14 30·37 F 54

3 30·36 F 60 A

14 30·08 F 56 D

0 30·18 R 56 AA

Showery

CB 18 30·34 F

13 30·18 F 58 M

28 30·22 F 57 P

GO No report

40 30·15 S 56

34 29·90 F 56 WP Showery

WEATHER MAP,

3 APRIL, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	74	50	0
Grafton	b	90	64	0
Liverell	b	72	48	0
Bourke	b	78	54	0
Narrabri	b	88	50	0
Armidale	b	69	49	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	76	60	0
Murr'undi	b	71	46	0
Cassilis	b	78	43	0
Mus'brook	b	80	48	0
Dubbo	b	71	52	0
Mudgee	b	84	48	0
Maitland	b	75	58	0
Newcastle	b	79	68	0
Orange	b	64	53	0
Bathurst	b	69	39	0
Mt Victoria	b	66	53	0
Forbes	b	79	64	0
SYDNEY	v	73	57	0
Wentw'th.	g	70	50	0
Young	b	68	62	0
Wol'gong	b	71	57	0
Moss Vale	..	..	..	..
Euston	u	65	53	0
Goulburn	b	68	39	0
Wagga	..	..	..	..
Cape Geo.	c	67	58	0
Queanb'an	b	71	43	0
Deniliquin	g	72	53	0
Albury	b	71	40	0
Gocalla	b	76	46	0
Cooma	b	76	32	0
Eden	b	70	54	0
Gabo Isld.	..	..	..	..

PD

18 29·87 R 85

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 3 April .... 18·853.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·08 F 66

L. Torrens

B 3 30·07 F 78

G 28 30·01 F 75

23 30·31 F 61 BO

FINE GENERALLY

PM 14 30·04 F 65

N 4 30·28 R 67

S 11 30·07 F 62

W 14 30·32 F 58

8 30·32 F 60 A 28 30·28 R 57 D

0 30·14 F 56 A A

C 42 30·04 S 65

CB 13 30·30F

13 30·20 R 59 M

28 30·25 R 58 P

E 14 30·01 F 65

Bar. has fallen about .10

SMOOTH SEA

GO No report

18 30·19 R 57

34 29·92 R 56 WP

Showery

WEATHER MAP,

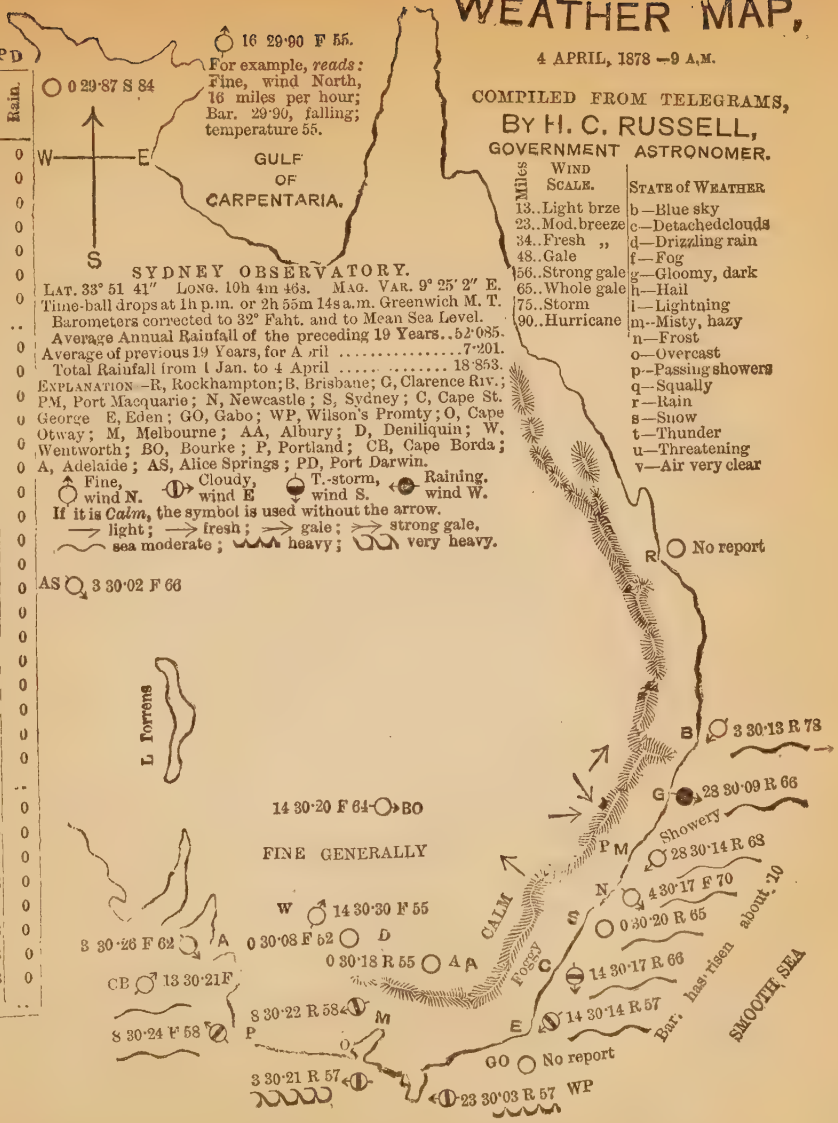
4 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	73	48	0
Grafton ..	u	93	58	0
Liverell ..	b	76	50	0
Bourke ..	b	79	55	0
Narrabri ..	b	87	50	0
Armidale.	c	68	49	0
Gunnedah	b	86	51	0
Tamworth	..	..	..	..
P. Macqrie	b	76	59	0
Murr'undi	b	72	46	0
Cassilis ..	b	77	48	0
Mus'brook	b	78	54	0
Dubbo ..	b	71	52	0
Mudgee ..	g	82	51	0
Maitland..	b	73	58	0
Newcastle	b	77	..	0
Orange ..	b	66	53	0
Bathurst..	b	73	42	0
Mt Victoria	g	68	48	0
Forbes ..	b	77	62	0
SYDNEY ..	b	71	69	0
Wentw'th.	b	72	45	0
Young ..	b	66	43	0
Woll'gong	b	71	57	0
Moss Vale	c	67	49	0
Euston ..	b	77	42	0
Goulburn	..	..	..	..
Wagga ..	b	73	46	0
Cape Geo.	c	68	59	0
Queanb'an	b	72	51	0
Deniliquin	b	68	42	0
Albury ..	b	72	41	0
Bonalla ..	o	75	53	0
Cooma ..	c	76	33	0
Eden	f	70	53	0
Gabo Isld	..	..	..	..



WEATHER MAP,

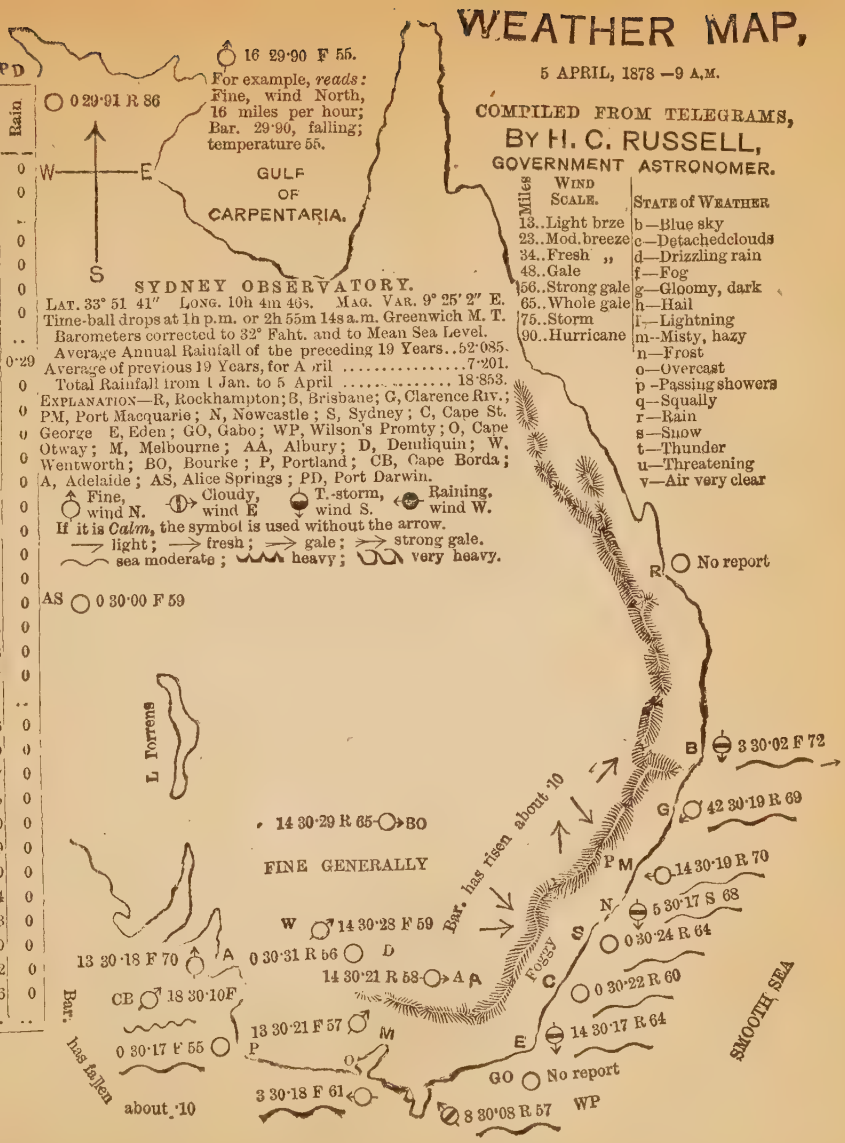
5 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterd'ld	b	74	48	0
Grafton ..	b	77	45	0
Liverell ..	..	..	..	..
Bourke ..	b	82	56	0
Narrabri..	b	90	57	0
Armidale.	b	71	52	0
Gunnedah.	b	94	52	0
Tamworth	..	..	..	..
P. Macqrie	b	74	41	0·29
Murr'undi	b	73	49	0
Cassilis ..	g	77	48	0
Mus'brook	b	80	52	0
Dubbo ..	b	75	55	0
Mudgee ..	b	89	55	0
Maitland..	c	70	57	0
Newcastle	c	78	60	0
Orange ..	b	65	44	0
Bathurst..	b	75	43	0
Mt Victoria	b	68	45	0
Forbes ..	b	79	63	0
SYDNEY ..	b	71	58	0
Wentw'th.	b	78	47	0
Young ..	..	..	..	..
Wolf'gong	b	72	56	0
Moss Vale	c	67	49	0
Euston ..	b	80	47	0
Goulburn	f	76	45	0
Wagga ..	b	76	40	0
Cape Geo.	b	69	59	0
Queanb'an	b	74	50	0
Deniliquin	b	74	44	0
Albury ..	b	76	43	0
Bodalla ..	b	71	50	0
Cooma ..	o	73	42	0
Eden	u	66	56	0
Gabo Isld.	..	..	..	..



Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP,

6 APRIL, 1878—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	73	52	0
Grafton	b	93	50	0
Inverell	b	80	53	0
Bourke	b	89	60	0
Narrabri	b	91	58	0
Armidale	b	72	52	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	76	61	0
Murr'undi	b	74	50	0
Cassilis	b	80	52	0
Mus'brook	o	81	53	0
Dubbo	b	77	60	0
Mudgee	b	89	58	0
Maitland	b	79	58	0
Newcastle	b	78	60	0
Orange	c	63	53	0
Bathurst	b	77	45	0
Mt Victoria	b	77	48	0
Forbes	b	81	67	0
SYDNEY	b	93	60	0
Wentw'th.	b	84	52	0
Young	..	..	..	..
Woll'gong	b	74	62	0
Moss Vale	..	..	..	..
Euston	b	82	48	0
Goulburn	..	..	..	..
Wagga	..	..	..	..
Cape Geo.	b	69	59	0
Queanb'an	b	77	55	0
Deniliquin	b	79	49	0
Albury	b	80	44	0
Bodalla	b	98	51	0
Cooma	b	76	35	0
Eden	b	68	56	0
Gabo Isld.	..	..	..	..

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W E S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April ..... 7·201.
Total Rainfall from 1 Jan. to 6 April ..... 18·853.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS

L Torrens

B 8 30·18 R 78

G No report

28 30·24 F 71 BO

FINE

PM 14 30·22 R 68

N 1 30·11 F 7?

S 0 30·25 S 65

W 14 30·21 F 64

A 0 30·27 F 59 D

14 30·22 R 59 AA

C 22 30·23 S 65

CB

23 30·09 F 63

13 30·16 F 64 M

P O

E 14 30·13 F 63

GO No report

Bar. has fallen about ·10

13 30·11 F 62

8 30·03 F 64 WP

SMOOTH SEA

WEATHER MAP,

8 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather	Max.	Min.	Rain.
Tenterfield	b	69	50	0
Grafton ..	b	94	53	0·22
Liverpool ..	c	79	52	0
Bourke ..	c	93	58	0
Narrabri..	b	92	59	0
Armidale..	c	72	61	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	r	77	63	1·42
Murr'undi	b	75	49	0
Cassilis ..	b	82	49	0
Mus'brook	g	83	53	0
Dubbo ..	b	80	58	0
Mudgee ..	b	95	56	0
Maitland..	c	77	59	0
Newcastle	g	78	61	0
Orange ..	b	73	50	0
Bathurst..	b	78	47	0
Mt Victoria	p	72	49	0·12
Forbes ..	..	..	..	..
SYDNEY ..	g	74	63	0
Wentw'th.	b	92	56	0
Young ..	..	..	..	..
Woll'gong	b	74	60	0
Moss Vale	..	..	..	..
Euston ..	b	85	45	0
Goulburn	..	..	..	..
Wagga ..	c	82	55	0
Cape Geo.	t	72	64	0
Queanb'an	f	79	51	0
Deniliquin	b	85	58	0
Albury ..	b	85	47	0
Bodalla ..	f	63	55	0
Cooma ..	f	82	40	0
Eden	f	72	60	0
Gabo Isld.	f	73	74	0

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

3 29·81 F 87

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 8 April ..... 18·857.

EXPLANATION -R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18 30·03 R 74

L Torrens

B 3 30·18 S 76

G No report

14 30·34 R 71 BO

Bar. has risen generally about ·20

PM 14 30·27 R 64

N 4 30·26 R 62

S 6 30·24 F 68

W — 30·23 R 67

3 30·22 F 69 A 14 30·42 R 65 D

0 30·31 R 63 AA

CB 8 30·18 R

C 28 30·56 R 67

8 30·29 R 67 M

0 30·20 R 66 P

E 0 30·31 R 63

GO 3 30·37 — 65

No report

No report WP

Showery

ROCKY

SMOOTH SEA

WEATHER MAP,

9 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	c	70	50	0
Grafton ..	r	85	52	1·42
Inverell ..	b	79	53	0
Bourke ..	b	91	63	0
Narrabri..	b	87	63	0
Armidale..	c	70	55	0·03
Gunnedah	b	86	62	0
Tamworth	..	..	..	..
P. Macqrie	r	75	63	1·25
Murr'undi	c	71	55	0·20
Cassilis ..	b	77	62	0
Mus'brook	r	83	61	0
Dubbo ..	b	78	60	0
Mudgee ..	b	85	60	0
Maitland..	r	73	63	1·27
Newcastle	g	77	63	0·09
Orange ..	b	70	51	0
Bathurst..	g	71	54	0
Mt Victoria	p	63	51	0·60
Forbes ..	b	84	66	0
SYDNEY ..	b	72	62	0·55
Wentw'th.	c	94	59	0
Young ..	b	78	52	0
Wol'gong	b	74	62	0
Moss Vale	..	..	..	..
Euston ..	b	93	64	0
Goulburn	c	72	52	0
Wagga ..	b	82	41	0
Cape Geo.	b	72	64	0
Queanb'an	g	78	52	0
Deniliquin	b	87	59	0
Albury ..	b	85	49	0
Bodalla ..	b	83	54	0·56
Cooma ..	b	78	40	0
Eden	b	71	62	0
Gabo Isld.	b	74	65	0

PD

8 29·87 R 61

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 9 April .... 19·410.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·05 R 78

L Torrens

B 3 30·24 R 69

G 28 30·29 — 67

42 30·39 R 70 BO

FINE GENERALLY

Bar. has risen generally about ·10

PM 14 30·23 F 64

N 0 30·36 R 65

W 14 30·38 R 69

3 30·30 R 80 A 14 30·47 R 68 D

0 30·42 R 62 AA

E 13 30·43 R 71

CE 13 30·26 R

C — 30·45 F 70

8 30·42 R 71 M

E 14 30·44 R 68

0 30·36 R 37 P O

GO 42 30·47 R 69

0 30·37 R 70

23 30·29 R 63 WP Foggy

SMOOTH SEA

WEATHER MAP,

10 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterd'ld	c	73	55	0
Grafton ..	u	86	52	0·19
Inverell ..	b	72	51	0
Bourke ..	..	..	..	..
Narrabri ..	b	88	62	0
Armidale ..	c	70	54	0
Gunnedah	b	90	60	0
Tamworth ..	..	..	..	..
P. Macqrie	p	69	63	1·92
Murr'undi	b	71	60	0
Cassilis ..	g	75	56	0
Mus'brook	g	79	60	0·04
Dubbo ..	b	78	57	0
Mudgee ..	b	85	58	0
Maitland ..	c	74	61	0·37
Newcastle	b	78	65	0
Orange ..	b	70	53	0
Bathurst ..	b	71	48	0
Mt Victoria	p	64	50	0·15
Forbes ..	b	86	65	0
SYDNEY ..	p	74	61	0·27
Wentw'th.	c	90	62	0
Young ..	b	76	53	0
Wol'gong	b	74	60	0
Moss Vale ..	..	..	..	..
Euston ..	b	91	62	0
Goulburn	c	75	49	0
Wagga ..	b	82	40	0
Cape Geo.	c	71	63	0·20
Queanb'an	b	75	53	0
Deniliquin	b	83	58	0
Albury ..	b	84	48	0
Bodalla ..	b	83	54	0
Cooma ..	f	75	49	0
Eden	p	74	63	0·05
Gabo Isld.	c	75	64	0

PD

8 29·83 F 86

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 10 April .....19·678.

EXPLANATION -R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale. sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·09 R 73

L Torrens

B 3 30·21 F 74

G 3 30·28 F 72

No report BO

FINE GENERALLY

PM Showery 28 30·31 R 65

N 9 30·36 S 70

S 0 30·41 F 64

W 28 30·41 R 71

3 30·37 R 76 A 14 30·52 R 66 D

0 30·44 R 61 AA

C 28 30·42 F 65

CB 13 30·34R

8 30·45 R 65 M

Showery E 14 30·42 F 66

0 30·43 R 66 P O

GO 4 30·25 F 67

8 30·44 R 65

23 30·32 R 62 WP Foggy

Bar. has risen about ·10

SMOOTH SEA.

WEATHER MAP,

11 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterd'ld	b	69	51	0
Grafton ..	b	84	43	0·21
Laverell ..	b	76	50	0
Bourke ..	b	85	61	0
Narrabri..	b	87	59	0
Armidale.	b	69	50	0
Gunnedah	b	80	57	0
Tamworth	..	..	..	..
P. Macqrie	q	76	57	0·77
Murr'undi	b	72	50	0
Cassilis ..	g	73	56	0
Mus'brook	b	79	52	0·07
Dubbo ..	b	77	53	0
Mudgee ..	b	87	59	0
Maitland..	b	75	57	0
Newcastle	b	72	60	0
Orange ..	c	69	46	0
Bathurst..	b	72	45	0
Mt Victoria	c	65	46	0·30
Forbes ..	b	79	63	0
SYDNEY ..	c	71	61	0
Wentw'th.	g	89	57	0
Young ..	b	73	60	0
Woll'gong	b	71	59	0
Moss Vale	..	..	..	..
Euston ..	c	85	53	0
Goulburn	b	74	56	0·04
Wagga ..	b	82	40	0
Cape Geo.	c	68	63	0
Queanb'an	b	76	48	0
Deniliquin	b	85	53	0
Albury ..	b	84	48	0
Bodalla ..	p	79	53	0·59
Cooma ..	b	76	40	0·01
Eden	c	70	57	0·03
Gabo Isld.	o	69	59	0

PD

S 29·83 S 85

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 11 April .....20·574.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 8 30·09 S 74

L. Torrens

B 3 30·17 F 72

G 28 30·20 F 63

PM squally 28 30·22 F 62

N 11 30·22 F 68

about 10

S 12 30·32 F 67

C 56 30·33 F 65

has fallen

SMOOTH SEA

E 14 30·26 F 60

Bar.

GO 1 30·25 S 61

23 30·27 F 60 WP

Showery

56 29·97—72 BO

FINE GENERALLY

W 14 30 38 F 64

8 30·37 S 76 A

0 30·40 F 64 D

0 30·35 F 60 AA

CB 18 30·36R

8 30·41 F 64 P

0 30·36 F 61 M

Foggy

13 30·40 F 62

WEATHER MAP,

12 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	60	45	0
Grafton ..	b	84	46	0
Laverell ..	b	72	52	0
Bourke ..	b	85	56	0
Narrabri..	b	80	55	0
Armidale..	b	65	50	0
Gunnedah ..		..	..	..
Tamworth ..		..	..	..
P. Macqrie	q	69	59	0·68
Murr'undi	g	62	52	0
Cassilis ..	b	70	50	0
Mus'brook	g	75	53	0
Dubbo ..	b	77	50	0
Mudgee ..	b	83	50	0
Maitland..	g	70	58	0
Newcastle	b	77	57	0
Orange ..	b	66	39	0
Bathurst..	b	66	38	0
MtVictoria	b	60	41	0
Forbes ..	b	76	56	0
SYDNEY ..	g	69	58	0
Wentw'th.	b	83	54	0
Young ..	..	..	..	..
Woll'gong	b	68	55	0
Moss Vale	..	..	..	..
Euston ..	b	85	57	0
Goulburn	n	68	37	0
Wagga ..	b	82	41	0
Cape Geo.	c	65	59	0
Queanb'an	b	72	42	0
Deniliquin	b	84	54	0
Albury ..	b	81	44	0
Bodalla ..	b	74	45	0
Cooma ..	b	72	33	0
Eden	b	71	52	0
Gabo Isld.	b	76	54	0

PD

S 29·81 F 86

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 12 April .....20·575.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh	„	d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS S 30·03 F 73

L Torrens

B 3 30·07 F 72

G 28 30·10 F 65

42 30·33 R 61 BO

FINE GENERALLY

PM squally 42 30·11 F 62

N 9 30·17 R 64

S 16 30·22 F 64

W 28 30 30 F 63

3 30·32 F 75 A 14 30·37 F 60 D

0 30·29 F 58 AA

Frost

C 56 30·23 F 60

CB 18 30·34 F

8 30·34 F 56 M

E 14 30·15 F 59

has fallen about .10

SMOOTH SEA

23 30·36 F 62 P Foggy

GO 3 30·15 F 59

Bar.

S 30·35 F 64

0 30·16 F 57 WP

WEATHER MAP,

13 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	60	43	0
Grafton ..	b	84	42	0
Inverell ..	b	53	45	0
Bourke ..	b	80	57	0
Narrabri..	b	81	53	0
Armidale..	b	85	50	0
Gunnedah	b	83	66	0
Tamworth ..	..	..	..	..
P. Macqrie	q	73	58	0·09
Murr'undi	n	62	43	0
Cassilis ..	b	71	42	0
Mus'brook	b	75	48	0·01
Dubbo ..	b	74	50	0
Mudgee ..	n	88	48	0
Maitland..	b	69	55	0·05
Newcastle	b	75	57	0
Orange ..	b	64	53	0
Bathurst..	b	71	39	0
Mt Victoria	b	62	44	0
Forbes ..	b	75	57	0
SYDNEY ..	b	68	57	0
Wentw'th.	b	86	54	0
Young ..	b	68	48	0
Woll'gong	b	68	56	0
Moss Vale	..	..	..	..
Euston ..	b	87	51	0
Goulburn	n	70	39	0
Wagga ..	b	81	45	0
Cape Geo.	b	65	60	0
Queanb'an	b	73	44	0
Deniliquin	b	83	49	0
Albury ..	b	78	41	0
Bodalla ..	b	78	44	0
Cooma ..	f	73	34	0
Eden	b	71	52	0
Gabo Isld.	b	67	54	0

PD

3 29·79 F 86

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 13 April .....20·575.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light breze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b —Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18 30·03 S 72

L Torrens

B 3 30·15 R 71

G 14 30·15 R 63

28 30·31 F 67 BO

FINE GENERALLY

Frost

squally

PM 28 30·13 R 63

N 4 30·13 F 65

W 14 30 29 F 70

calm

foggy

E 7 30·21 F 61

0 30·28 F 66 A

14 30·35 F 59 D

0 30·25 F 57 A A

C 28 30·21 F 64

SMOOTH SEA

CB

8 30·28 F 58 M

13 30·31 F 58 P

E 14 30·17 R 53

GO 3 30·08 F 60

Bar.

8 30·29 F 55

has fallen

about .10

28 30·06 F 58 WP

WEATHER MAP,

15 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	b	71	49	0
Grafton ..	b	90	47	0
Inverell ..	b	73	45	0
Bourke ..	b	88	58	0
Narrabri..	b	90	55	0
Armidale..	b	68	51	0
Gunnedah	b	90	48	0
Tamworth	..	..	..	..
P. Macqrie	b	74	58	0
Murr'undi	b	72	45	0
Cassilis ..	b	71	50	0
Mus'brook	b	77	46	0
Dubbo ..	b	75	53	0
Mudgee ..	b	86	46	0
Maitland..	b	73	59	0·05
Newcastle	b	75	61	0
Orange ..	b	66	41	0
Bathurst..	b	65	39	0
Mt Victoria	b	67	46	0
Forbes ..	b	75	58	0
Sydney ..	b	71	58	0·01
Wentw'th.	..	..	..	..
Young ..	b	74	43	0
Wol'gong	b	71	55	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	n	75	39	0
Wagga ..	b	78	32	0
Cape Geo.	b	69	58	0
Queanb'an	b	75	42	0
Deniliquin	..	..	..	..
Albury ..	b	78	41	0
Bodalla ..	b	79	49	0
Cooma ..	b	72	32	0
Eden	b	67	56	0
Gabo Isld.	b	70	57	0

PD 3 29·81 R 77

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W E S

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7 201.
Total Rainfall from 1 Jan. to 15 April .....20·582.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 3 30·01 F 73

L Torrens

B 3 30·18 R 79

G 28 30·12 F 69

28 30·27 F 70 BO

FINE GENERALLY

PM 14 30·15 R 65

N 5 30·12 F 66

S 6 30 14 F 63

W No report

No report D

3 30·10 F 62 A

14 30·14 F 56 AA

Frost

C 28 30·12 F 64

CB No report

18 29·99 F 67 M

13 30·02 F 54 P

E 14 30·01 F 62

SMOOTH SEA

Bar. has fallen about ·30

3 29·99 F 60 O

GO 14 29·93 F 63

3 29·89 F 58 WP

WEATHER MAP,

16 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	72	43	0
Grafton ..	b	90	47	0
Liverall ..	b	90	45	0
Bourke ..	g	94	65	0
Narrabri..	u	92	59	0
Armidale.	b	68	40	0
Gunnedah	b	93	54	0
Tamworth	..	..	..	..
P. Macqrie	b	77	58	0
Murr'undi	b	73	48	0
Cassilis ..	b	80	42	0
Mus'brook	b	82	77	0
Dubbo ..	b	75	52	0
Mudgee ..	b	88	45	0
Maitland..	b	75	54	0
Newcastle	b	83	55	0
Orange ..	b	66	42	0
Bathurst..	b	73	40	0
Mt Victoria	b	65	43	0
Forbes ..	b	77	58	0
SYDNEY ..	b	76	58	0
Wentw'th.	b	87	..	0
Young ..	..	..	..	..
Woll'gong	b	74	56	0
Moss Vale	..	..	..	..
Euston ..	u	87	59	..
Goulburn	b	75	35	0
Wagga ..	b	79	31	0
Cape Geo.	b	76	60	0
Queanb'an	b	74	46	0
Deniliquin	c	83	55	0
Albury ..	c	75	45	0
Bodalla ..	..	..	..	..
Cooma ..	b	70	34	0
Eden	b	73	55	0
Gabo Isld.	b	83	59	0

PD

8 29·87 R 87

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 16 April .....20·582.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 29·98 F 75

L Torrens

B 3 30·28 R 77

G 28 30·29 R 69

0 30·30 R 69 BO

FINE—CALM GENERALLY

PM 14 30·23 R 67

N 5 30·20 R 66

S 8 30·28 R 64

W 28 30·25 — 63

3 30·21 R 66 A 14 30·27 — 61 D

14 30·24 R 58 AA

C 14 30·29 R 67

CB — 30·17

8 30·20 R 60 M

E 14 30·17 R 63

0 30·19 R 59 P

GO 0 30·03 R 68

0 30·18 R 64

0 30·10 R 60 WP

Bar. has risen about ·20

SMOOTH SEA

WEATHER MAP,

17 APRIL, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	78	47	0
Grafton ..	b	94	46	0
Laverell ..	b	76	47	0
Bourke ..	b	96	66	0
Narrabri..	b	76	53	0
Armidale..	b	70	34	0
Gunnedah	b	90	54	0
Tamworth	..	..	..	..
P. Macqrie	b	78	58	0
Murr'undi	b	75	47	0
Cassilis ..	b	85	44	0
Mus'brook	b	84	49	0
Dubbo ..	b	79	55	0
Mudgee ..	b	95	53	0
Maitland..	b	75	54	0
Newcastle	b	84	57	0
Orange ..	b	70	53	0
Bathurst..	b	80	43	0
Mt Victoria	b	70	49	0
Forbes ..	b	79	61	0
Sydney ..	b	78	59	0·01
Wentw'th.	c	87	58	0
Young ..	b	77	59	0
Wol'gong	b	74	57	0
Moss Vale	..	..	..	..
Euston ..	g	90	58	..
Goulburn	b	82	40	0
Wagga ..	g	84	30	0
Cape Geo.	b	74	60	0
Queanbean	b	77	50	0
Deniliquin	b	89	60	0
Albury ..	u	83	49	0
Bodalla ..	b	86	45	0
Cooma ..	g	74	36	0
Eden	b	74	56	0
Gabo Isld.	b	80	60	0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7 201.

Total Rainfall from 1 Jan. to 17 April .....20·588.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale. sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light breze		b—Blue sky
23..Mod. breeze		c—Detachedclouds
34..Fresh	"	d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

R No report

L. Torrens

28 30·40 R 72 BO

FINE—CALM GENERALLY

Bar. has risen about ·10

W 14 30·24 F 65

13 30·27 R 64 A 0 30·28 R 68 D

CB 8 30·27 R 0 30·27 F 61 A

0 30·22 R 60 P 0 30·17 F 60 M

0 30·21 R 61

GO 0 30·09 R 69

8 30·05 F 63 WP

B 3 30·34 R 76

G 28 30·32 R 74

PM 14 30·34 R 67

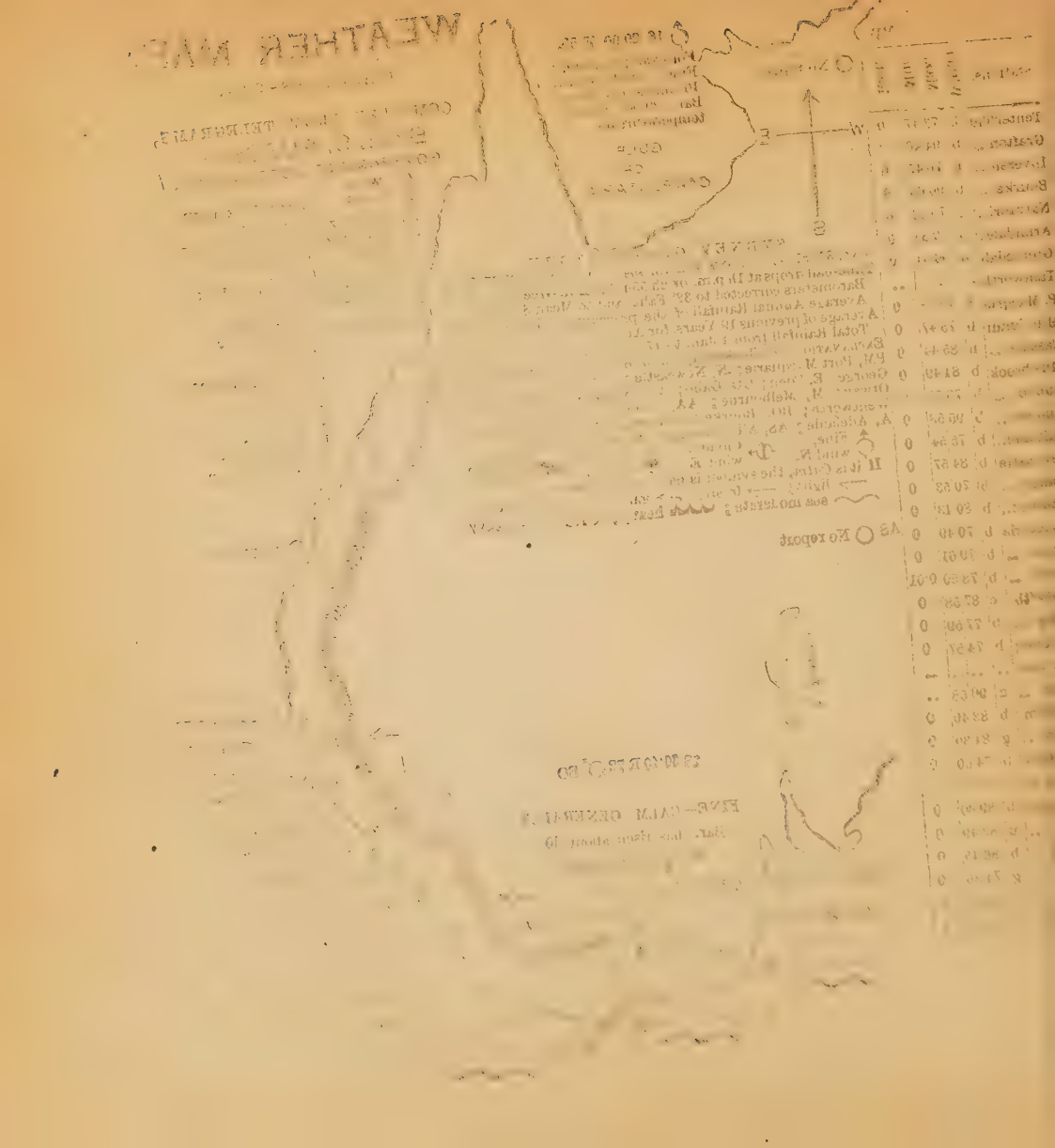
N 5 30·20 S 64

S 0 30·34 R 64

C 14 30·28 F 66

E 14 30·19 R 62

SMOOTH SEA



WEATHER MAP.

18 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	o	68	47	0
Grafton	g	90	45	0
Laverell	c	66	53	0
Bourke	o	92	73	0
Narrabri	u	93	64	0
Armidale	c	68	40	0
Gunnedah	g	92	57	0
Tamworth	..	..	..	..
P. Macqrie	g	77	59	0
Murr'undi	u	80	54	0
Cassilis	b	85	55	0
Mus'brook	g	84	52	0
Dubbo	u	81	62	0
Mudgee	u	93	56	0
Maitland	o	76	58	0
Newcastle	g	78	59	0
Orange	g	71	55	0
Bathurst	g	82	54	0
Mt Victoria	g	74	53	0
Forbes	o	85	62	0
Sydney	g	75	62	0
Wentw'th.	..	..	..	..
Young	u	88	57	0
Woll'gong	b	71	63	0
Moss Vale	..	..	..	..
Euston	r	86	55	0·15
Goulburn	g	84	51	0
Wagga	g	84	46	0
Cape Geo.	c	75	66	0
Queanbean	d	77	55	0
Deniliquin	g	82	53	0·26
Albury	u	78	58	0·05
Adalla	o	89	50	0
Boma	r	76	51	0·02
Eden	u	74	61	0
Cabo Isld.	c	80	56	0·01

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7 201.
Total Rainfall from 1 Jan. to 18 April .....20·588.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13	Light brze
23	Mod. breeze
34	Fresh "
48	Gale
56	Strong gale
65	Whole gale
75	Storm
90	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

R No report

L Torrens

28 30·27 F 71 BO

CALM—CLOUDY GENERALLY

Bar. has fallen about ·20

W No report

18 30·01 F 59 A

14 30·28 S 56 D

0 30·17 F 62 4 A

CB 18 30·03F

13 30·15 F 56

8 30·17 S 55 M

P

rain

8 30·16 F 57

GO 29·94 F 67

8 30·02 F 56 WP

B 3 30·32 F 74

G 42 30·31 F 69

PM 14 30·28 F 62

N 4 30·18 F 64

S 2 30·18 F 64

C 14 30·17 F 68

E 14 30·06 F 66

SMOOTH SEA

WEATHER MAP.

20 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	b	74	50	0
Grafton ..	f	90	47	0
Inverell ..	b	78	52	0
Bourke ..	b	88	58	0
Narrabri ..	c	75	61	0
Armidale ..	b	71	59	0
Gunnedah	b	80	61	0
Tamworth ..	..	..	..	..
P. Macqrie	b	78	67	0
Murr'undi	o	75	57	0
Cassilis ..	..	..	..	..
Mus'brook	b	86	60	0
Dubbo ..	b	79	57	0
Mudgee ..	f	78	52	0·17
Maitland ..	b	80	62	0·25
Newcastle	b	82	66	0
Orange ..	c	68	53	0·18
Bathurst ..	b	72	46	0·24
Mt Victoria	b	68	49	0·12
Forbes ..	b	78	57	0
SYDNEY ..	b	79	63	0·02
Wentw'th.	..	..	..	..
Young ..	c	75	50	0
Woll'gong	b	74	61	0
Moss Vale	..	..	..	..
Euston ..	r	70	53	0·10
Goulburn	b	75	49	0
Wagga ..	c	81	41	0
Cape Geo.	b	74	60	0
Queanbn	b	72	51	0·39
Deniliquin	c	74	56	0
Albury ..	o	77	55	0·80
Bodalla ..	b	80	51	0·55
Cooma ..	b	69	42	0·27
Eden	..	..	..	..
Gabo Isld	..	..	..	..

PD

13 29·85 — 87

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E
S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 20 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·00 — 80

L Torrens

B 3 30·14 F 73
Foggy
G 42 30·13 F 71

0 30·20 F 60 BO

FINE GENERALLY

rain

W No report

PM 14 29·93 F 70

N 4 30·00 F 72

S 6 30·04 F 67

Bar. has fallen about ·20

8 30·20 R 60 A

14 30·14 F 60 D

14 30·11 F 61 AA

C 28 30·05 F 65

SMOOTH SEA

CB 18 30·11R

Bar. has risen about ·10

8 30·15 S 60

No report M

P

E No report

GO No report

18 30·13 F 60 Showery

28 29·90 F 58 WP

WEATHER MAP.

22 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	76	51	0
Grafton ..	..	..	..	..
Inverell ..	..	..	..	..
Bourke ..	c	89	73	0
Narrabri..	..	..	..	..
Armidale.	b	64	53	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	o	75	49	0
Cassilis ..	b	78	47	0
Mus'brook	o	86	53	0
Dubbo ..	g	79	55	0
Mudgee ..	f	89	56	0
Maitland..	o	79	54	0
Newcastle	..	..	..	..
Orange ..	p	65	48	0·02
Bathurst..	b	72	45	0
Mt Victoria	o	70	45	0
Forbes ..	b	74	57	0·06
SYDNEY ..	o	74	61	0
Wentw'th.	b	70	..	0
Young ..	..	..	..	..
Woll'gong	c	74	60	0
Moss Vale	..	..	..	..
Euston ..	o	70	57	0·23
Goulburn	c	74	48	0
Wagga ..	o	83	50	0·09
Cape Geo.	c	68	63	..
Queanb'an	o	73	51	0
Deniliquin	b	75	52	0
Albury ..	d	73	49	0·30
Bodalla ..	o	74	58	0
Cooma ..	o	69	48	0
Eden	o	69	61	0·13
Gabo Isld.	o	75	61	0

PD

16 29·90 F 55.

For example, reads: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 22 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS

L. Torrens

B

G 8 29·98 F 72

8 30·16 F 76 BO

Foggy

CLOUDY GENERALLY

PM

N

W 8 30·08 60

8 30·02 F 61 D rain

0 29·94 F 57 A

S 4 29·92 F 62

A

C 23 29·91 F 64

CB

E 8 29·76 F 66

P O M

GO 0 29·66 F 63

28 29·78 F 59

23 29·64 F 58 WP

WEATHER MAP.

23 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	73	50	0
Grafton ..	b	88	60	0
Laverell ..	b	82	53	0
Bourke ..	b	88	60	0
Narrabri ..	c	96	55	0
Armidale .	b	70	39	0
Gunnedah	b	92	50	0
Tamworth	..	..	..	..
P. Macqrie	b	79	59	0
Murr'undi	b	74	48	0
Cassilis ..	b	81	57	0
Mus'brook	g	70	52	0
Dubbo ..	u	75	54	0
Mudgee ..	b	89	48	0
Maitland ..	b	77	57	0
Newcastle	b	83	57	..
Orange ..	u	67	44	0
Bathurst ..	u	71	41	0
Mt Victoria	g	66	46	0
Forbes ..	b	76	60	0
SYDNEY ..	c	78	61	0
Wentw'th.	b	72	52	0
Young ..	b	71	46	0
Woll'gong	b	76	60	0
Moss Vale	..	..	..	..
Euston ..	b	71	59	0
Goulburn	b	65	48	0
Wagga ..	g	74	53	0
Cape Geo.	o	81	62	..
Queanb'an	b	67	52	0
Deniliquin	b	72	51	0
Albury ..	o	71	50	0·03
Bodalla ..	c	83	52	0
Cooma ..	..	..	..	..
Eden	b	72	58	0
Gabo Isld.	b	73	57	0

PD

3 29·88 — 81

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 23 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 18 30·03 — 70

L Torrens

B 3 30·00 — 79

G 0 30·02 R 72

14 30·25 R 64 BO

FINE GENERALLY

P M 28 29·96 — 67

N 4 29·84 — 63

S 12 29·95 R 64

W 42 30·22 R 58

18 30·20 — 61 A 28 30·14 R 57 D

28 29·99 R 58 A A

C 42 29·88 F 63

SMOOTH SEA

CB 18·30·15

No report M

34 30·02 — 57 P

E 14 29·82 R 63

Bar. Showery

28 29·95 R 56

GO 5 29·72 R 64

34 29·74 R 56 WP

has risen about ·10

Showery

WEATHER MAP.

24 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	PD Rain.
Tenterf'ld	b	70	49	0
Grafton ..	b	94	51	0
Inverell ..	b	80	59	0
Bourke ..	b	78	51	0
Narrabri..	b	90	43	0
Armidale..	b	68	37	0
Gunnedah	b	90	46	0
Tamworth ..		..	..	..
P. Macqrie ..		..	..	..
Murr'undi	b	71	42	0
Cassilis ..	b	75	37	0
Mus'brook	b	79	46	0
Dubbo ..	b	72	49	0
Mudgee ..	b	82	43	0
Maitland..	b	75	51	0
Newcastle	b	79	57	0
Orange ..	b	60	40	0
Bathurst..	b	64	35	0
Mt Victoria	b	59	38	0
Forbes ..	b	70	52	0
SYDNEY ..	b	72	55	0
Wentw'th.	b	69	43	0
Young ..	b	66	36	0
Wol'gong	b	72	55	0
Moss Vale	..	..	..	..
Euston ..	b	71	59	0
Goulburn	b	66	36	0
Wagga ..	b	71	40	0
Cape Geo.	b	71	53	1·13
Queanb'an	b	68	38	0
Deniliquin	b	66	43	0
Albury ..	f	65	37	0
Bodalla ..	b	78	38	0
Cooma ..	n	70	29	0
Eden	b	68	55	0
Gabo Isld.	b	64	57	0

No report

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 24 April .....20·612.

EXPLANATION —R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

B 3 30·03 R 76

G 28 30·03 F 65

L Torrens

14 30·34 R 60 BO

FINE GENERALLY

PM No report

N 4 30·04 R 64

S 12 30·09 R 59

W — 30·29 R 52

0 30·30 R 49 D Foggy

8 30·19 F 60 A

0 30·14 R 39 AA

CB 13 30·12F

28 30·07 R 59

13 30·12—57 M

23 30·10 R 58 P

E 14 30·00 R 61

40 30·06 R 57

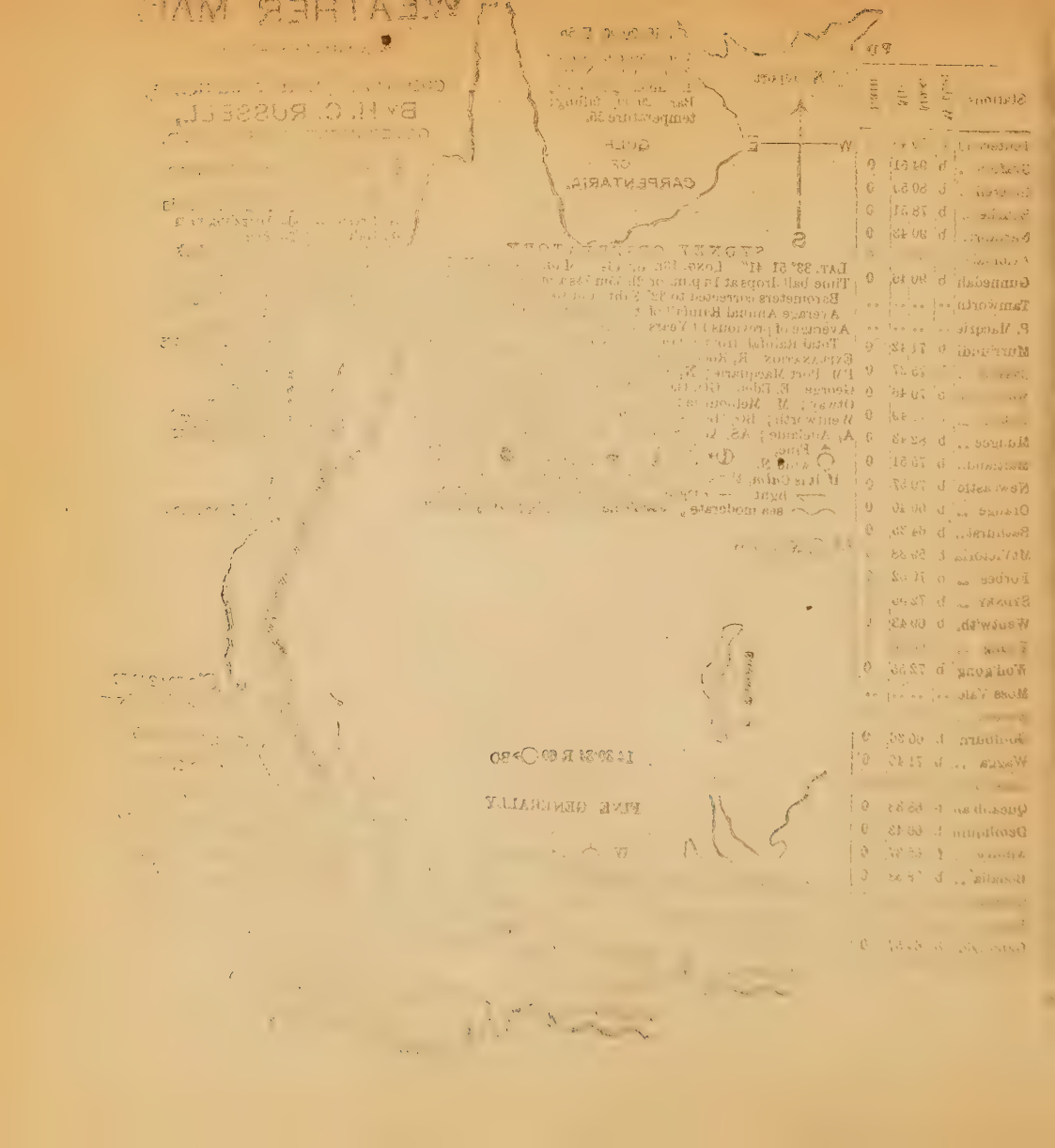
GO 6 29·86 R 58

34 29·87 R 57 WP

Bar. has risen about ·20

SMOOTH SEA

Front C



WEATHER MAP.

25 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	73	49	0
Grafton ..	b	91	51	0
Liverell ..	b	61	35	0
Bourke ..	b	77	50	0
Narrabri..	b	85	44	0
Armidale..	n	67	35	0
Gunnedah	b	83	38	0
Tamworth	..	..	..	..
P. Macqrie	b	72	51	0
Murr'undi	b	70	38	0
Cassilis ..	b	71	35	0
Mus'brook	b	74	42	0
Dubbo ...	b	66	45	0
Mudgee ..	n	84	40	0
Maitland..	b	68	45	0
Newcastle	b	73	50	0
Orange ...	b	57	34	0
Bathurst..	b	62	31	0
Mt Victoria	b	59	37	0
Forbes ...	b	71	49	0
SYDNEY ...	b	68	52	0
Wentw'th.	c	72	49	0
Young ...	b	61	37	0
Woll'gong	b	68	52	0
Moss Vale	..	..	..	--
Euston ...	b	73	57	0
Goulburn	b	66	35	0
Wagga ...	b	64	44	0
Cape Geo.	c	64	52	0
Queanb'an	c	64	39	0
Deniliquin	c	68	46	0
Albury ...	c	65	40	0
Bodalla ..	g	70	40	0
Cooma ..	g	68	32	0
Eden	c	68	53	0
Gabo Isld.	o	67	56	0

PD

8 29·89 S 35

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E — S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for April .....7·201.
Total Rainfall from 1 Jan. to 25 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 3 29·98 F 78

L Torrens

B 3 30·10 R 72

G 28 30·08 R 63

Frost

14 30·25 F 61 BO

FINE—CALM GENERALLY

P M 28 30·03 — 59

N 7 29·87 F 69

S 8 30·05 F 56

W 28 30·02 F 62

13 29·87 F 65 A

14 30·12 F 55 D

0 30·05 F 51 A A

C 28 29·98 F 54

CB 18 29·81 F

23 29·80 F 58 M

E 14 30·03 R 58

SMOOTH SEA

34 29·71 F 61 P

Bar. has fallen about ·30

34 29·76 F 61 O

GO 14 29·84 F 60

28 29·74 F 59 WP squally

WEATHER MAP
29 APRIL 1875 – 9 A.M.
COMPILED FROM TELEGRAMS
BY U. S. SIGNAL SERVICE

WEATHER MAP,

26 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterfi'ld	b	70	45	0
Grafton ..	b	86	42	0
Laverell ..	c	71	39	0
Bourke ..	o	83	59	0
Narrabri..	c	76	46	0
Armidale.	b	64	33	0
Gunnedah	b	84	46	0
Tamworth	..	..	..	..
P. Macqrie	b	71	51	0
Murr'undi	b	67	58	0
Cassilis ..	b	71	45	0
Mus'brook	b	77	49	0
Dubbo ..	u	68	50	0
Mudgee ..	b	80	44	0
Maitland..	g	69	50	0
Newcastle	g	78	46	0
Orange ..	u	62	40	0
Bathurst..	g	70	40	0
Mt Victoria	g	64	47	0
Forbes ..	u	70	52	0
SYDNEY ..	g	70	55	0
Wentw'th.	g	78	57	0
Young ..	g	69	43	0
Woll'gong	c	69	57	0
Moss Vale	..	..	..	..
Euston ..	c	78	55	0
Goulburn	g	70	41	0
Wagga ..	r	71	45	0
Cape Geo.	c	66	56	0
Queanb'an	o	63	42	0
Deniliquin	p	72	54	0·25
Albury ..	r	72	47	0·08
Bodalla ..	c	78	41	0
Cooma ..	g	66	37	0
Eden	c	69	55	0
Gabo Isld.	b	74	59	0

PD

8 29·86 F 85

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

W — E

S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7 201.

Total Rainfall from 1 Jan. to 26 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 29·95 F 79

L. Torrens

B 3 30·13 R 73

G 28 30·03 F 68

about ·10

0 30·18 F 62 BO

CLOUDY—CALM GENERALLY

Fine

PM 14 29·98 F 59

N 3 29·96 R 60

E 2 29·95 F 59

W 14 29·88 F 61

8 29·78 F 63 A

0 29·95 F 56 D

0 29·93 F 55 AA

CB 23 29·73F

C 28 29·89 F 62

has fallen

SMOOTH SEA

Bar.

28 29·63 F 61

18 29·75 F 58 M

P Showery

FINE E 14 29·80 F 63

3 29·63 F 64

GO 0 29·71 F 64

0 29·60 F 61 WP

Bar.

fallen about ·10

WEATHER MAP.

27 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	b	75	47	0
Grafton ..	c	90	53	0
Laverell ..	b	76	57	0
Bourke ..	b	84	61	0
Narrabri..	b	82	57	0·30
Armidale.	b	70	40	0
Gunnedah	b	89	56	0·01
Tamworth	..	..	..	..
P. Macqrie	b	74	61	0
Murr'undi	b	70	54	0
Cassilis ..	p	77	56	0·10
Mus'brook	b	80	59	0
Dubbo ..	b	64	55	0
Mudgee ..	f	64	50	0
Maitland..	b	72	60	0
Newcastle	b	75	58	0
Orange ..	c	57	29	0.18
Bathurst..	b	61	46	0·07
Mt Victoria	b	60	51	0
Forbes ..	b	74	58	0·19
Sydney ..	b	70	59	0
Wentw'th.	b	78	50	0
Young ..	u	68	42	0·40
Wol'gong	b	69	56	0
Moss Vale	..	..	..	..
Euston ..	b	77	48	0
Goulburn	u	63	51	0·03
Wagga ..	..	..	..	..
Cape Geo.	..	..	..	..
Queanb'an	b	62	47	0·02
Deniliquin	b	70	53	0·51
Albury ..	o	63	48	0·70
Bodalla ..	b	79	45	0
Cooma ..	b	65	40	0·17
Eden	b	65	54	0·04
Gabo Isld.	b	68	57	0

PD

8 29·91 R 86

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 55s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for April .....7·201.

Total Rainfall from 1 Jan. to 27 April .....20·612.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 29·91 F 79

L Torrens

B 3 30·14 R 85

G 14 30·08 R 72

Foggy

Showery

PM 14 30·03 R 66

N 5 29·97 R 71

S 5 30·00 R 68

C No report

E 14 29·97 R 60

SMOOTH SEA

GO 28 29·77 R 63

18 29·73 R 57 WP

about ·10 has risen

Bar.

13 29·80 R 60

18 29·86 R 61 M

P

28 29·77 R 59

18 29·82 R 64 A

CB 23 29·71 F

0 30·19 R 72 BO

FINE GENERALLY

W 14 30·09 R 59

0 30·0 R 56 D

0 29·97 R 57 AA

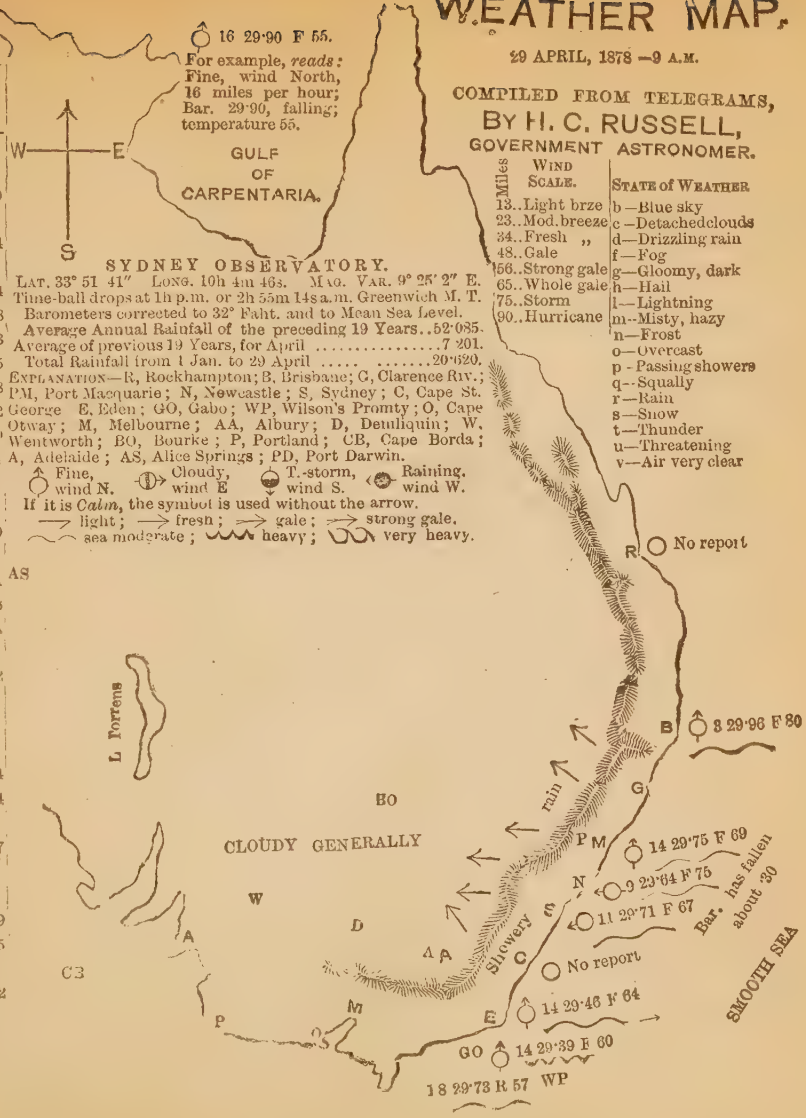
WEATHER MAP

WEATHER MAP.

29 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	u	69	54	0
Grafton ..	..	..	..	..
Inverell ..	p	81	62	0·30
Bourke .	..	..	..	..
Narrabri..	o	76	65	1·24
Armidale.	..	..	..	..
Gunnedah	u	92	62	1·44
Tamworth	..	..	..	2·93
P. Macqrie	g	72	65	0·33
Murr'undi	r	68	58	1·35
Cassilis ..	c	82	60	0·58
Mus'brook	b	89	60	0·22
Dubbo ..	b	76	62	0·20
Mudgee ..	u	65	57	0·61
Maitland..	b	80	63	0
Newcastle	b	85	66	0
Orange ..	c	62	50	0.50
Bathurst..	b	75	43	0
Mt Victoria	b	67	46	0·11
Forbes ..	b	72	59	0·18
SYDNEY ..	b	75	64	0·01
Wentw'th.	..	..	..	..
Young ..	b	66	53	0·12
Wolf'gong	b	78	57	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	c	71	49	0·34
Wagga ..	b	77	48	0·34
Cape Geo	..	..	..	..
Queanbeam	c	72	49	0·67
Deniliquin	..	..	..	..
Albury ..	..	..	..	..
Bodalla ..	p	83	43	0·89
Cooma ..	p	69	44	0 55
Eden	b	76	56	0
Goodsid	b	75	52	0·12

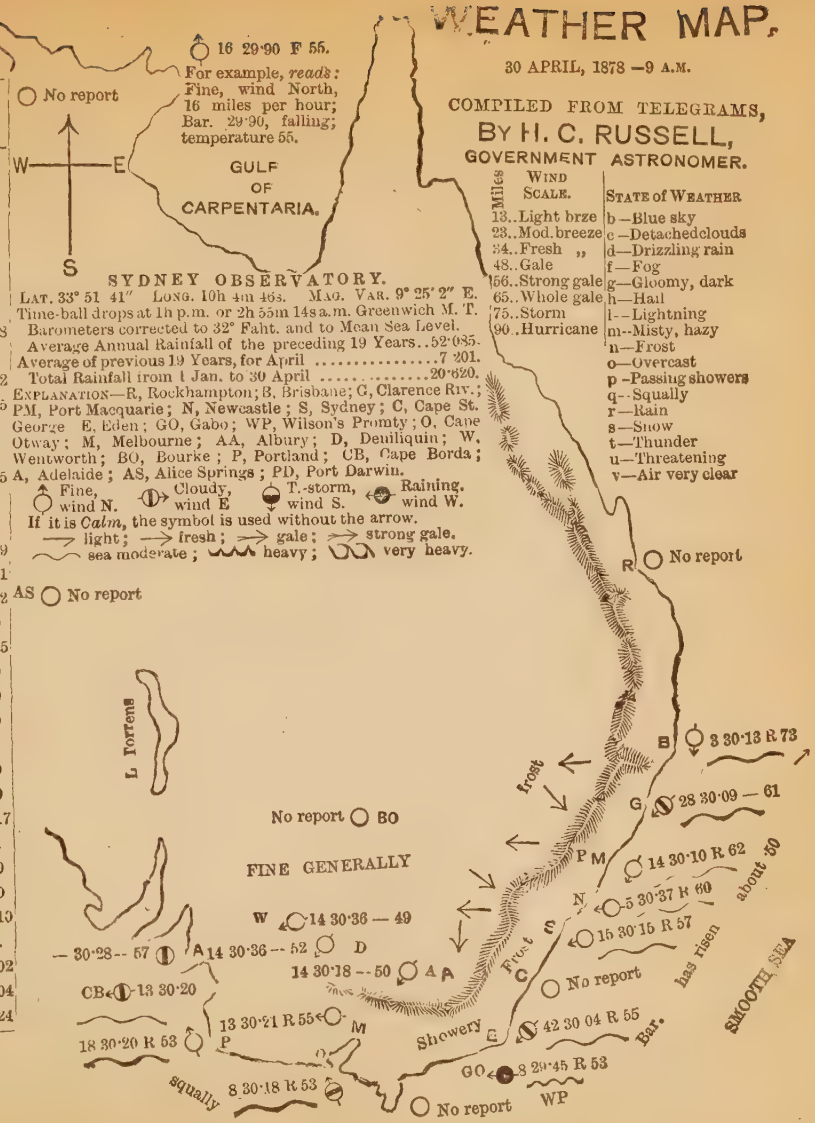


WEATHER MAP.

30 APRIL, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	69	43	0
Grafton ..	c	79	47	0
Liverell ..	b	73	43	0
Bourke ..	..	..	..	..
Narrabri ..	c	77	47	0
Armidale.	n	65	30	0
Gunnedah	g	79	46	0
Tamworth	..	..	..	2·98
P. Macqrie	b	79	56	0
Murr'undi	b	64	49	0·02
Cassilis ..	b	73	45	0·05
Mus'brook	b	78	43	0
Dubbo ..	b	71	41	0
Mudgee ..	b	75	46	0·05
Maitland ..	b	76	55	0
Newcastle	b	82	53	0
Orange ..	b	60	39	0.09
Bathurst ..	b	61	44	0·11
MtVictoria	b	57	35	0·12
Forbes ..	b	71	52	0
SYDNEY ..	b	73	55	0·15
Wentw'th.	b	68	41	0
Young ..	b	63	39	0
Woll'gong	b	71	52	0
Moss Vale	..	..	..	..
Euston ..	b	72	51	0
Goulburn	n	63	39	0
Wagga ..	b	68	45	0·17
Cape Geo.	..	..	..	..
Queanb'an	b	59	39	0
Deniliquin	b	66	39	0
Albury ..	b	64	39	0·10
Bodalla ..	..	..	..	..
Cooma ..	g	61	34	0 02
Eden	u	77	53	0·04
Gabo Isld.	p	72	50	0·24



WEATHER MAP

WEATHER MAP.

1 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterfi'ld	b	68	35	0
Grafton ..	u	72	48	0
Inverell ..	b	72	37	0
Bourke ..	b	69	48	0
Narrabri..	c	71	46	0
Armidale.	b	63	30	0
Gunnedah	b	73	43	0
Tamworth	..	..	..	..
P. Macqrie	b	70	52	0
Murr'undi	c	66	36	0
Cassilis ..	n	63	35	0
Mus'brook	b	70	40	0
Dubbo ..	b	69	45	0
Mudgee ..	n	80	43	0
Maitland..	b	66	45	0
Newcastle	b	78	48	0
Orange ..	b	56	45	0
Bathurst..	n	62	33	0
MtVictoria	b	55	36	0
Forbes ..	b	66	49	0
SYDNEY ..	b	64	49	0
Wentw'th.	b	68	40	0
Young ..	b	58	36	0
Woll'gong	b	63	59	0
Moss Vale	..	..	..	..
Euston ..	b	63	38	0
Goulburn	n	62	33	0
Wagga ..	b	66	39	0
Cape Geo.	..	..	..	..
Queanb'an	c	61	37	0
Deniliquin	c	64	39	0
Albury ..	c	64	34	0
Bodalla ..	c	70	38	0
Cooma ..	c	63	34	0
Eden	c	68	47	0
Gabo Isld.	c	62	50	0

PD

No report.

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 1 May .....20·621.

EXPLANATION—R, Rockhampton; B. Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

L. Torrens

R No report

B 3 30·25 R 66

G 42 30 22 R 59

PM 14 30·23 R 58

N 4 30·11 F 56

E 8 30·23 R 53

C No report

E 14 30·05 R 53

GO 3 29·99 F 52

WP 23 29·95—52

14 30·32—52 BO

FINE GENERALLY

frost

Frost

Bar. has risen about ·10

W 28 30·25 F 63

8 30·11 F 57 A

0 30·03 F 47 D

0 30·19 S 45 A A

CB 23 30·01 F

18 30·10 F 55 M

28 30·02 F 55 P

18 30·02 F 55

Bar. has fallen about ·20

WEATHER MAP.

2 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther	Max.	Min	Rain.
Tenterfield	b	67	37	0
Grafton ..	..	..	..	..
Inverell ..	b	71	47	0
Bourke ..	b	75	48	0
Narrabri..	c	74	53	0
Armidale..	..	..	..	..
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	71	53	0
Murr'undi	b	64	45	0
Cassilis ..	b	74	39	0
Mus'brook	b	74	44	0
Dubbo ..	b	67	41	0
Mudgee ..	n	78	43	0
Maitland..	b	68	49	0
Newcastle	b	78	47	0
Orange ..	b	57	43	0
Bathurst..	n	66	31	0
Mt Victoria	b	58	43	0
Forbes ..	b	67	48	0
SYDNEY ..	c	71	53	0
Wentw'th.	c	74	44	0
Young ..	b	61	37	0
Woll'gong	b	69	53	0
Moss Vale	..	..	..	..
Euston ..	b	73	39	0
Goulburn	b	67	35	0
Wagga ..	b	66	40	0
Cape Geo.	..	..	..	..
Queanb'an	b	62	37	0
Deniliquin	g	67	42	0
Albury ..	b	64	34	0
Bodalla ..	f	74	29	0
Cooma ..	n	64	29	0
Eden	b	62	45	0
Gabo Isld.	b	62	49	0

PD

19 29·89—85

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 2 May .....20·621.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WIND SCALE. Miles

13..Light brze
23..Mod. breeze
34..Fresh „
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 30·01—68

B 3 30·19 F 70

G No report

L Torrens

0 30·30 F 53 BO

FINE—CALM GENERALLY

frost

PM 14 30·10 F 62

N 4 30·05 F 59

S 1 30·08 F 57

Frost

Foggy

W 14 30·12 F 56

13 29·98—67 A 14 30·06 R 49 D

0 30·08 F 46 AA

C No report

CB No report

Showery

23 29·92 F 56 M

23 29·79 F 55 P

E 14 30·08 R 52

SMOOTH SEA

Bar. has fallen about ·20

48 29·78 F 59 squally

GO 3 29·91 R 52

WP 23 29·78 F 59

WEATHER MAP,

3 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Centerfield	p	75	52	0·12
Grafton ..	g	84	64	0
Inverell ..	b	73	30	0
Bourke .	b	79	48	0
Narrabri..	b	80	49	0
Armidale.	c	67	39	0
Gunnedah	b	79	47	0
Tamworth	..	..	..	..
P. Macqrie	c	74	63	0
Murr'undi	b	70	48	0
Cassilis ..	b	75	44	0
Mus'brook	b	80	50	0
Dubbo ..	b	67	45	0
Rudgee ..	b	78	47	0
Maitland..	b	73	52	0
Newcastle	b	79	57	0
Orange ..	c	60	47	0
Bathurst..	b	67	40	0
Mt Victoria	b	61	41	0
Forbes ..	b	74	52	0
SYDNEY ..	b	73	54	0
Wentw'th.	b	77	42	0·04
Young ..	u	63	41	0
Wol'gong	b	70	54	0
Moss Vale	..	..	..	..
Euston ..	b	57	37	0·16
Goulburn	b	65	47	0
Warga ..	b	68	43	0
Cape Geo.	..	..	..	..
Queanb'an	b	62	40	0
Deniliquin	b	69	40	0·20
Albury ..	b	67	43	0
Cooma ..	b	67	35	0
Eden	b	62	51	0
Gabo Isld.	b	75	53	0

PD

18 29·83 F 93

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 3 May .....20·621.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 18 30·10 R 66

L Torrens

B 30·17 F 68

G 28 30·13—68

14 30·39 R 55 BO

FINE GENERALLY

PM 14 30·08 F 64

N 4 30·29 R 65

S 16 30·14 R 59

W 14 30·33 R 48

8 30·36 R 53 A 14 30·39 R 46 D

28 30·21 R 51 A

C No report

CB 23 30·28

Bar. has risen about ·40

18 30·21 R 54 M

28 30·20 R 53 P

E 14 30·37 R 57

48 29·78 F 59 Showery

GO 7 29·93 R 55

WP 40 29·92 R 53

SMOOTH SEA

WEATHER MAP.

4 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain
Tenterfield	g	66	44	0
Grafton ..	g	84	57	0
Laverell ..	c	71	45	0
Bourke ..	c	72	48	0
Narrabri..	d	78	48	0
Armidale.	n	64	42	0
Gunnedah	g	84	43	0
Tamworth	..	..	..	..
P. Macqrie	c	79	52	0
Murr'undi	b	66	39	0
Cassilis ..		65	34	0
Mus'brook	b	75	39	0
Dubbo ..	b	62	43	0
Mudgee ..	n	84	38	0
Maitland..	b	69	45	0
Newcastle	b	74	47	0
Orange ..	n	55	32	0
Bathurst..	n	60	29	0
MtVictoria	b	56	32	0
Forbes ..	b	73	46	0
SYDNEY ..	b	66	50	0
Wentw'th.	b	67	37	0
Young ..	b	57	33	0
Woll'gong	..	..	..	..
Moss Vale	..	..	..	..
Euston ..	n	76	35	0
Goulburn	b	65	31	0
Wagga ..	g	64	36	0
Cape Geo.	..	..	..	..
Queanb'an	b	62	33	0
Deniliquin	b	63	43	0
Albury ..	g	64	35	0
Bodalla ..	c	73	39	0
Cooma ..	n	66	23	0
Eden	b	63	45	0
Gabo Isld.	b	62	51	0

PD

8 29·91 R 86

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan. to 4 May .....20·621.

EXPLANATION —R, Rockhampton; B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 18 30·15 R 53

L Torrens

B

G 28 30·26 R 62

28 30·28 F 52 BO

FINE GENERALLY

frost

P M

14 30·32 R 56

N 4 30·27 F 57

S 8 30·35 R 54

W 14 30·49 F 48

S 30·44 R 55 A 14 30·52 R 49 D

0 30·36 R 49 A

C No report

CB 23 30·38

13 30·33 R 57 M

28 30·27 R 56 P

E 14 30·25 F 52

28 30·24 R 56

GO 3 30·15 R 57

WP 23 30·09 R 55

Bar. has risen about ·20

SMOOTH SEA

WEATHER MAP.

6 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterfi'ld	b	68	44	0
Grafton ..	b	83	54	0
Liverell ..	b	72	49	0
Bourke ..	b	72	46	0
Narrabri..	..	..	..	..
Armidale.	d	64	43	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	71	57	0·31
Murr'undi	d	66	35	0
Cassilis ..	b	67	39	0
Mus'brook	b	71	38	0
Dubbo ..	b	66	40	0
Mudgee ..	b	80	50	0
Maitland..	g	65	45	0·18
Newcastle	g	74	48	0·04
Orange ..	b	58	38	0
Bathurst..	b	66	30	0
Mt Victoria	b	59	38	0
Forbes ..	b	66	47	0
SYDNEY ..	b	66	55	0
Wentw'th.	b	68	40	0
Young ..	b	61	41	0
Wol'gong	b	66	49	0
Moss Vale	..	..	..	..
Euston ..	b	75	36	0
Goulburn	r	65	40	0
Wagga ..	b	67	40	0
Cape Geo.	c	63	49	..
Queanb'an	b	64	33	0
Deniliquin	b	65	41	0
Albury ..	b	68	36	0
Bodalla ..	o	73	35	0
Cooma ..	n	64	23	0
Eden	b	56	46	0
Gabo Isld.	b	61	50	0·02

PD

18 29·90 F 84

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 6 May .....20·622.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence RIV.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 8 30·17 R 55

L Torrens

B 3 30·34 R 68

G No report

14 30·31 R 53 BO

FINE GENERALLY

rain

PM 14 30·43 R 60

N 8 30·49 R 65

S 18 30·52 R 60

W 14 30·59 R 46

3 30·32 F 55 A 0 30·64 R 48 D

0 30·48 R 48 A

CALM

Fine

C 42 30·54 — 56

CB No report

8 30·59 R 50 M

0 30·60 R 53 P

E 14 30·55 R 52

SMOOTH SEA

GO 2 30·39 R 55

42 30·57 R 55

3 30·40 R 54 WP

Bar. has risen about ·30

WEATHER MAP,

7 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min	Rain.
Tenterfield	b	59	45	0
Grafton ..	c	79	54	0·04
Liverell ..	b	74	40	0
Bourke ..	b	78	53	0
Narrabri ..	..	..	..	..
Armidale .	b	58	48	0·08
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	c	67	57	0·14
Murr'undi	f	63	44	0
Cassilis ..	g	72	35	0
Mus'brook	g	73	53	0
Dubbo ..	b	68	50	0
Mudgee ..	g	76	48	0
Maitland ..	b	67	53	0·01
Newcastle	g	76	49	0
Orange ..	b	58	38	0
Bathurst ..	n	67	..	0
Mt Victoria	g	59	35	0
Forbes ..	b	67	47	0
SYDNEY ..	b	63	51	0
Wentw'th.	b	70	39	0
Young ..	b	61	41	0
Woll'gong	b	62	53	0
Moss Vale	..	..	..	..
Euston ..	b	70	37	0
Goulburn	g	64	30	0
Wagga ..	b	65	46	0
Cape Geo.	c	59	54	..
Queanb'an	b	63	36	0
Deniliquin	b	61	41	0
Albury ..	b	68	35	0
Bodalla ..	n	71	34	0
Cooma ..	fn	49	22	0
Eden	b	60	50	0
Gabo Isld.	b	62	48	0

PD

18 30·02 R 83

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.
LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan. to 7 May .....20·622.
EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 18 30·10 F 60

L Torrens

22 30 47 R 60 BO

FINE GENERALLY

W 28 30·48 F 48

3 30·46 R 55 A

14 30·53 F 48 D

14 30·43 F 49 AA

Frost—Foggy CALM

CB — 30·44

8 30·42 F 49 M

8 30·42 F 52 P

8 30·41 F 53

has fallen about ·20

O 0 30·25 F 52 WP

GO 14 30·27 F 53

E 14 30·37 F 50

C 14 30·43 F 56

S 6 30·45 F 55

N 5 30·40 F 59

PM 14 30·37 F 60

G 28 30·34 — 62

B 3 30·32 F 64

SMOOTH SEA

GULF
OF
CARPENTARIA

WEATHER MAP,

8 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterfield	c	60	45	0
Grafton ..	g	81	56	0
Liverpool ..	g	73	39	0
Bourke ..	c	79	54	0
Narrabri..	c	80	51	0
Armidale..	c	60	48	0
Gunnedah	b	82	45	0
Tamworth	..	..	..	..
P. Macquarie	c	69	56	0
Murr'undi	b	63	39	0
Cassilis ..	b	68	44	0
Mus'brook	f	71	50	0
Dubbo ..	b	69	47	0
Mudgee ..	n	81	44	0
Maitland..	b	69	49	0
Newcastle	f	74	47	0
Orange ..	n	60	36	0
Bathurst..	n	62	34	0
MtVictoria	c	59	38	0
Forbes ..	b	68	47	0
SYDNEY ..	b	66	53	0·01
Wentw'th.	b	43	39	0
Young ..	b	63	34	0
Woll'gong	b	64	53	0
Moss Vale	..	..	..	..
Euston ..	b	74	35	0
Goulburn	..	..	..	..
Wagga ..	b	68	40	0
Cape Geo.	c	65	53	..
Queanbean	b	64	39	0
Deniliquin	b	68	39	0
Albury ..	b	68	35	0
Bodalla ..	b	72	36	0
Cooma ..	fn	66	24	0
Eden	b	57	47	0
Gabo Isld.	b	70	49	0

PD

23 29·85 F 81

16 29·90 F 55.
For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E
S

GULF OF CARPENTARIA.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b —Blue sky
c —Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan. to 8 May .....20·630

EXPLANATION—R, Rockhampton B. Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

AS 8 30·10 S 59

R No report

B 3 30·30 F 62

G —30·26— 67

PM 14 30·33 F 60

N 4 30·30 F 54

S 5 30·37 F 57

C 28 30·27 F 57

E 14 30·25 F 52

GO 3 30·15 F 52

23 30·13 F 56 WP

Bar. has fallen about ·10

SMOOTH SEA

Frost

Frosty

CALM

Frost

L Torrens

14 29 96 F 59 BO

FINE GENERALLY

W 14 30·46 F 47

8 30·43 F 53 A

14 30·52 F 46 D

0 30·35 F 47 AA

CB 13 30·40F

13 30·32 F 57 P

8 30·35 F 54 M

28 30·28 F 56

WEATHER MAP.

9 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min	Rain.
Tenterfi'ld	c	55	43	0
Grafton ..	u	71	56	0·12
Liverell ..	g	63	52	0
Bourke ..	c	78	53	0
Narrabri..	d	48	80	0
Armidale.	c	60	50	0
Gunnedah	d	76	50	0
Tamworth	..	..	..	..
P. Macqrie	c	68	58	0
Murr'undi	b	64	44	0
Cassilis ..	b	75	38	0
Mus'brook	b	83	46	0
Dubbo ..	b	70	45	0
Mudgee ..	n	84	40	0
Maitland..	f	67	51	0
Newcastle	b	74	53	0
Orange ..	n	58	34	0
Bathurst..	n	67	31	0
Mt Victoria	b	60	40	0
Forbes ..	b	70	50	0
SYDNEY ..	b	67	52	0·01
Wentw'th.	b	74	37	0
Young ..	b	65	36	0
Woll'gong	b	69	52	0
Moss Vale	..	..	..	..
Euston ..	b	76	35	0
Goulburn	b	68	30	0
Wagga ..	b	68	37	0
Cape Geo.	b	66	52	..
Queanb'an	b	66	36	0
Deniliquin	..	..	..	..
Albury ..	f	68	36	0
Bodalla ..	b	78	34	0
Cooma ..	fn	69	24	0
Eden	b	65	42	0
Gabo Isld.	b	69	49	0

WEATHER MAP,

10 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min	Rain.
Tenterfi'ld	p	65	43	0
Grafton ..	g	76	60	0·83
Laverell ..	r	56	37	0·95
Bourke ..	..	..	..	..
Narrabri..	r	72	57	0·40
Armidale.	r	59	54	0·71
Gunnedah	r	73	56	0·19
Tamworth	..	..	..	..
P. Macqrie	r	71	61	0·37
Murr'undi	r	66	49	0·16
Cassilis ..	g	73	44	0
Mus'brook	g	75	54	0·08
Dubbo ..	c	70	65	0
Mudgee ..	u	82	44	0
Maitland..	u	70	56	0
Newcastle	g	75	53	0·01
Orange ..	u	59	37	0
Bathurst..	g	68	39	0
Mt Victoria	g	59	43	0
Forbes ..	c	69	52	0
SYDNEY ..	u	71	52	0
Wentw'th.	b	73	40	0
Young ..	g	68	36	0
Woll'gong	c	70	60	0
Moss Vale	..	..	..	..
Euston ..	b	79	36	0
Goulburn	u	62	34	0
Wagga ..	b	68	40	0
Cape Geo.	u	75	54	..
Queanb'an	g	64	35	0
Deniliquin	b	67	45	0·02
Albury ..	b	65	40	0
Bodalla ..	c	80	38	0
Cooma ..	r	71	35	0
Eden	u	67	51	0
Gabo Isld.	q	76	49	0·10

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·685.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 10 May .....20·636

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
166..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 13 30·20 R 56

L Torrens

No report BO

CLOUDY GENERALLY

R No report

B 3 29·86 F 68

G 29·70 F 64

Bar. has fallen about .30

rain

PM 14 29·96 F 61

N 3 30·14 R 59

S 12 29·96 F 55

SMOOTH SEA

C 56 29·94 F 58

E 14 29·97 F 51

GO 7 29·93 F 50

34 29·93 R 50 WP

squally

hail

squally

W 28 30·41 R 47

cloudy

8 30·46 R 52 A 14 30·32 F 45 D

14 30·07 F 49 AA

CB 3 30·45 R

34 30·28 R 50 P

18 30·20 R 47 M

28 30·20 R 49

WEATHER MAP,

11 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min	Rain.
Tenterfield	b	60	40	0·15
Grafton ..	b	71	48	0·64
Liverell ..	b	61	39	0·30
Bourke ..	b	67	40	0
Narrabri..	b	62	39	0
Armidale..	b	57	40	0·32
Gunnedah	b	70	42	0·15
Tamworth	..	..	..	..
P. Macqrie	b	63	48	0·04
Murr'undi	b	59	38	0·66
Cassilis ..	b	63	34	0
Mus'brook	b	72	39	0·15
Dubbo ..	b	61	41	0
Mudgee ..	b	72	40	0
Maitland..	b	64	39	0·06
Newcastle	b	74	44	0·05
Orange ..	g	50	33	0
Bathurst..	b	54	32	0
Mt Victoria	..	..	..	..
Forbes ..	b	73	46	0
SYDNEY ..	c	61	45	0·02
Wentw'th.	g	60	43	0
Young ..	g	55	36	0
Wol'gong	b	66	47	0
Moss Vale	..	..	..	..
Euston ..	u	60	49	0
Goulburn	n	51	28	0
Wagga ..	u	68	40	0
Cape Geo.	c	56	42	0
Queanb'an	b	56	30	0
Deniliquin	b	57	41	0
Albury ..	u	61	37	0
Bodalla ..	n	42	33	0
Cooma ..	n	55	24	0
Eden	c	56	46	0
Gabo Isld	q	55	47	0·28

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4.n 46s. MAG. VAR. 9° 25' 2" E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan. to 11 May .....20·659

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WIND SCALE.	Miles
Light brze	13
Mod. breeze	23
Fresh "	34
Gale	48
Strong gale	56
Whole gale	65
Storm	75
Hurricane	90

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8 30·25 R 50

L Torrens

R No report

B No report

G — 30·06 R 53

Bar. has risen about ·20

28 30·51 — 58 80

FINE GENERALLY

PM 42 30·06 R 53

N 8 30·09 R 52

E 18 30·08 R 51

C 42 29·91 F 51

Front

W 28 30·48 R 50

13 30·49 R 59 A squally

28 30·37 R 49 D

0 30·17 R 46 4 A

CB 30 30·45 S

33 30·12 F 55 M

No report P

Showery

14 29·83 F 56

56 30·10 F 56

GO 7 29·77 F 53 squally

No report WP

WEATHER MAP.

13 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	c	69	30	0
Grafton ..	f	72	54	0
Liverell ..	b	60	37	0·30
Bourke ..	c	71	47	0
Narrabri ..	c	79	43	0
Armidale.	b	61	42	0
Gunnedah	b	77	40	0
Tamworth	..	..	..	..
P. Macqrie	b	71	51	0
Murr'undi	b	59	38	0
Cassilis ..	b	72	45	0
Mus'brook	b	73	43	0
Dubbo ..	b	66	43	0
Mudgee ..	b	75	45	0
Maitland..	b	68	49	0
Newcastle	b	76	54	0
Orange ..	u	57	40	0
Bathurst..	u	62	42	0
Mt Victoria	b	58	36	0
Forbes ..	o	70	53	0
SYDNEY ..	b	73	51	0
Wentw'th.	g	65	47	0
Young ..	p	59	36	0·02
Woll'gong	b	72	52	0
Moss Vale	..	..	..	..
Euston ..	u	72	47	0
Goulburn	g	60	40	0
Wagga ..	b	65	54	0
Cape Geo.	b	69	52	0
Queanb'an	b	61	38	0
Deniliquin	g	63	42	0·02
Albury ..	..	..	..	..
Bodalla ..	n	83	33	0
Cooma ..	b	71	35	0
Eden	b	65	48	0
Gabo Isld.	b	62	52	0

WEATHER MAP.

14 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	67	45	0
Grafton ..	b	82	52	0
Liverell ..	b	64	39	0
Bourke ..	b	67	42	0
Narrabri ..	b	68	43	0
Armidale.	b	59	42	0
Gunnedah	b	74	37	0
Tamworth	..	..	..	..
P. Macqrie	b	72	49	0
Murr'undi	b	61	39	0
Cassilis ..	b	65	36	0
Mus'brook	b	70	44	0
Dubbo ..	b	62	45	0
Mudgee ..	n	73	35	0
Maitland..	b	65	51	0
Newcastle	b	72	50	0
Orange ..	b	54	38	0
Bathurst..	b	57	40	0
Mt Victoria	b	59	34	0
Forbes ..	b	69	53	0
SYDNEY ..	c	67	52	0
Wentw'th.	..	..	..	..
Young ..	b	55	37	0
Woll'gong	b	72	51	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	g	57	38	0
Wagga ..	b	64	42	0
Cape Geo.	b	64	49	0
Queanb'an	b	61	35	0
Deniliquin	..	..	..	..
Albury ..	..	..	..	..
Bodalla ..	b	74	32	0
Cooma ..	n	68	24	0
Eden	b	58	46	0
Gabo Isld.	b	64	53	0

WEATHER MAP.

15 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b.	67	35	0
Grafton ..	b	83	59	0
Laverell ..	b	64	32	0
Bourke ..	b	66	40	0
Narrabri..	n	73	38	0
Armidale.	n	60	37	0
Gunnedah	b	74	35	0
Tamworth	..	..	..	..
P. Macqrie	b	67	49	0
Murr'undi	b	59	38	0
Cassilis ..	b	65	33	0
Mus'brook	b	67	44	0
Dubbo ..	n	63	40	0
Mudgee ..	n	74	33	0
Maitland..	b	63	44	0
Newcastle	b	73	49	0
Orange ..	b	56	26	0
Bathurst..	b	66	31	0
Mt Victoria	b	58	34	0
Forbes ..	c	68	47	0
SYDNEY ..	b	65	48	0
Wentw'th.	c	63	39	0
Young ..	g	54	35	0
Wol'gong	b	66	50	0
Moss Vale	..	..	..	..
Euston ..	b	69	46	0
Goulburn	b	64	38	0
Wagga ..	u	65	48	0
Cape Geo.	b	64	50	0
Queanb'an	b	61	36	0
Deniliquin	g	62	42	0
Albury ..	u	58	46	0
Bodalla ..	b	71	33	0
Cooma ..	g	68	24	0
Eden	u	62	45	0
Gabo Isld.	p	63	49	0

PD

18 29·86 S 79

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4 m 45s. MAG. VAR. 9° 25' 2" E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fhht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for May.....5·369.
Total Rainfall from 1 Jan. to 15 May .....20·069.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh "	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90 .	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS 0 30·05 R 56

L Torrens

14 30·38 R 50 BO

FINE GENERALLY

W 14 30·32 — 51

rain 8 30·30 R 54 A

14 30·28 — 57 D

0 30·15 — 51 AA

CB 3 30·25 F

28 30·30 R 50

Bar. has risen about ·20

13 30·25 R 50 M

P

13 30·25 R 43

40 29·99 R 47 WP

Gale

GO 29·89 F 52

Showery E 28 29·97 F 51

C 42 29·91 F 55

S 7 30·05 F 52

N 12 29·99 F 57

PM 14 29·99 R 56

Front

G 28 30·03 F 57

B No report

R No report

SMOOTH SEA

WEATHER MAP.

16 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min	Rain.
Tenterfi'ld	u	55	33	0
Grafton ...	c	83	56	0
Inverell ...	c	61	37	0
Bourke ..	b	67	41	0
Narrabri..	b	70	41	0
Armidale.	u	61	37	0
Gunnedah	b	76	43	0
Tamworth	..	..	..	..
P. Macqrie	p	70	54	0
Murr'undi	b	60	39	0
Cassilis ..	g	65	41	0
Mus'brook	b	69	43	0
Dubbo ...	b	60	43	0
Mudgee ..	c	75	46	0
Maitland..	b	65	51	0
Newcastle	b	75	51	0
Orange ...	c	61	36	0
Bathurst..	g	60	39	0
Mt Victoria	f	55	36	0
Forbes ...	b	69	49	0
SYDNEY ...	b	66	50	0
Wentw'th.	o	67	46	0
Young ...	b	57	41	0
Woll'gong	b	61	49	0
Moss Vale	..	..	..	..
Euston ..	u	66	46	0
Goulburn	g	60	39	0
Wagga ..	u	64	45	0
Cape Geo.	c	58	50	0·07
Queanb'an	u	62	45	0·01
Deniliquin	b	52	39	0
Albury ..	u	63	34	0
Boualia ..	n	60	31	0
Cooma ..	n	54	27	0
Eden	u	62	40	0·01
Gabo Isld.	c	55	44	0

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5·369.
Total Rainfall from 1 Jan. to 16 May .....20·677.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

AS No report

L Torrens

28 30·38 S 50 BO

CLOUDY GENERALLY

W 14 30·35 R 51

8 30·25 F 57 A

0 30·40 R 51 D

0 30·27 R 44 AA

CB 18 30·18 F

13 30·29 F 49

8 30·22 F 41 M

P

8 30·28 F 47

B 3 30·19 — 62

C 4 30·15 R 64

PM 28 30·26 R 57

N 6 30·28 R 55

E 7 30·35 R 52

C 28 30·28 R 52

E 14 30·31 R 43

GO 3 30·19 R 48

No report WP

Bar. has risen about .20

R No report

WEATHER MAP.

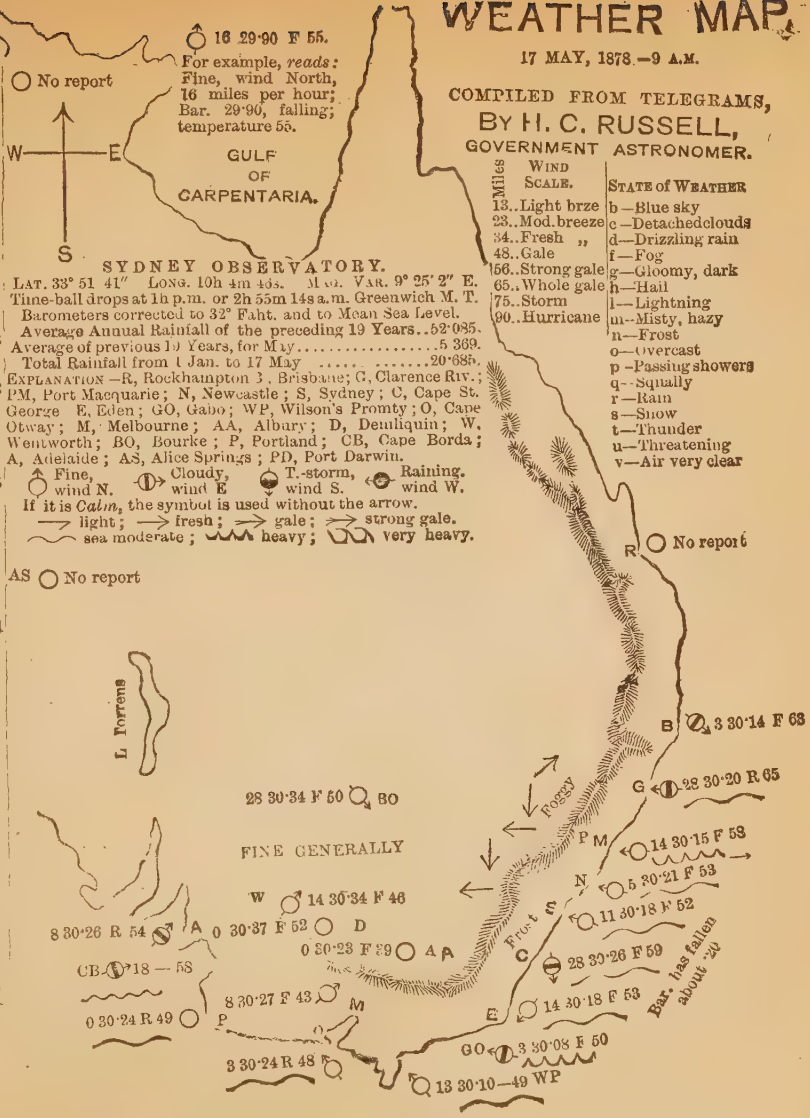
17 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min	Rain
Tenterfi'ld	b	55	41	0
Grafton ..	b	74	57	0
Liverell ..	b	66	42	0
Bourke ..	b	70	42	0
Narrabri ..	b	57	43	0
Armidale.	g	78	49	0
Gunnedah	b	76	43	0
Tamworth	..	..	..	..
P. Macqrie	b	66	54	0·03
Murr'undi	u	61	44	0
Cassilis ..	b	65	43	0·02
Mus'brook	f	67	46	0
Dubbo ..	b	64	45	0
Mudgee ..	u	71	44	0
Maitland..	c	65	49	0·05
Newcastle	g	68	50	0
Orange ..	n	57	34	0
Bathurst..	f	58	33	0
Mt Victoria	b	50	33	0
Forbes ..	b	75	48	0
SYDNEY ..	b	61	49	0·01
Wentw'th.	b	48	36	0
Young ..	b	61	34	0
Woll'gong	b	60	52	0
Moss Vale	..	..	..	..
Euston ..	b	65	33	0
Goulburn	n	59	31	0
Wagga ..	f	65	41	0
Cape Geo	c	59	50	0
Queanbah	b	58	35	0
Deniliquin	b	62	42	0
Albury ..	c	70	33	0
Bodalla ..	f	64	36	0
Cooma ..	f	58	24	0
Eden	b	60	46	0
Gabo Isld	c	58	48	0



SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan. to 17 May .....20·685.

EXPLANATION.—R, Rockhampton 3, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

WEATHER MAP.

18 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min	Rain.
Tenterfield	r	55	45	0
Grafton	b	72	62	0
Inverell	b	68	40	0
Bourke	c	70	43	0
Narrabri	...	...	...	..
Armidale	b	59	47	0
Gunnedah	b	76	46	0
Tamworth	..	...	...	..
P. Macqrie	b	71	54	0·31
Murr'undi	u	61	44	0·19
Cassilis	b	65	46	0
Mus'brook	g	69	48	0
Dubbo	b	65	44	0
Mudgee	b	78	49	0
Maitland	b	64	52	0
Newcastle	b	72	50	0
Orange	b	56	38	0
Bathurst	b	65	34	0
Mt Victoria	b	56	35	0
Forbes	b	73	43	0
SYDNEY	b	64	49	0
Wentw'th.	b	70	38	0
Young	b	59	36	0
Wol'gong	b	63	50	0
Moss Vale	..	...	...	..
Euston	n	71	34	0
Goulburn	b	63	30	0
Wagga	n	63	34	0
Cape Geo.	r	59	49	0·04
Queanbean	n	56	32	0
Deniliquin	b	62	42	0
Albury	b	60	30	0
Bodalla	g	63	36	0
Cooma	n	60	30	0
Eden	b	60	48	0
Gabo Isld.	c	57	48	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan to 18 May .....20·683.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS No report

L Torrens

0 30·42 R 46 BO

FINE GENERALLY

W 14 30·38 R 49

8 30·27 R 62 A

0 30·48 R 51 D

0 30·31 R 42 AA

CB 23 30·19

8 30·37 R 45 M

23 30·32 R 53 P

13 30·32 R 53 O

23 30·24 R 53 WP

GO 3 30·23 R 51

E 14 30·35 R 53

C 2 30·30 R 52

C 8 30·33 R 53

N 9 30·25 R 58

PM 28 30·24 R 60

G 42 30·18 F 61

B 3 30·19 R 69

Frost

rain

rain

SMOOTH SEA

Bar. has risen about ·20

WEATHER MAP,

20 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	..	..	..	..
Grafton	b	72	62	0
Liverell	..	..	..	..
Bourke	b	73	43	0
Narrabri	..	..	..	..
Armidale	c	59	40	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	66	53	0
Murr'undi	f	58	39	0
Cassilis	b	69	38	0
Mus'brook	b	66	47	0
Dubbo	n	67	43	0
Mudgee	n	79	41	0
Maitland	b	67	47	0
Newcastle	c	72	46	0
Orange	n	57	33	0
Bathurst	n	65	30	0
Mt Victoria	b	57	34	0
Forbes	b	78	47	0
SYDNEY	b	65	49	0
Wentw'th.	b	72	46	0
Young	b	61	33	0
Woll'gong	b	60	46	0
Moss Vale	..	..	..	..
Euston	b	76	44	0
Goulburn	f	63	50	0
Wagga	b	64	53	0
Cape Geo.	c	61	54	0
Queanb'an	b	60	..	0
Demliquin	b	65	37	0
Albury	b	63	32	0
Bodalla	b	72	35	0
Cooma	n	62	21	0
Eden	b	60	45	0
Gabo Isld.	b	59	48	0

PD

8 29·94 — 81

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 19 Years, for May.....5·369.

Total Rainfall from 1 Jan to 20 May .....20·690.

EXPLANATION —R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Demliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b —Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

B No report

G — 30·11 F 58

P M 28 30·11 F 57

N 5 30·15 F 52

S 8 30·21 F 52

C 42 30·24 F 53

E 14 30·18 F 49

GO 14 30·10 F 52

8 30·11 F 52 WP

AS 0 30·03 — 50

L Torrens

0 30·36 P 53 BO

FINE—CALM GENERALLY

W 14 30·25 F 55

8 30·17 F 59 A

14 30·33 F 44 D

0 30·21 F 40 AA

CB 13 30·07 F

23 30·13 F 55 P

8 30·22 F 48 M

13 30·19 F 53

Foggy

Fresh

SMOOTH SEA.

Bar. has fallen generally

about 10

WEATHER MAP,

21 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterf'ld	b	64	49	0
Grafton ..	b	72	47	0
Laverell ..	..	..	..	..
Bourke ..	b	75	50	0
Narrabri..	..	..	..	..
Armidale.	n	59	37	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	69	50	0
Murr'undi	b	60	36	0
Cassilis ..	b	60	46	0
Mus'brook	b	66	36	0
Dubbo ..	b	65	41	0
Mudgee ..	b	76	37	0
Maitland..	b	65	42	0
Newcastle	b	73	47	0
Orange ..	n	55	31	0
Bathurst..	n	65	27	0
MtVictoria	b	55	36	0
Forbes ..	b	69	47	0
SYDNEY ..	b	64	48	0
Wentw'th.	b	82	48	0
Young ..	b	61	34	0
Woll'gong	b	66	50	0
Moss Vale	..	..	..	..
Euston ..	b	77	44	0
Goulburn	f	65	28	0
Wagga ..	n	65	38	0
Cape Geo.	c	60	55	0
Queanb'an	b	62	31	0
Deniliquin	c	72	44	0
Albury ..	c	65	34	0
Bodalla ..	b	68	36	0
Cooma ..	n	63	20	0
Eden	c	63	45	0
Gabo Isld.	c	59	50	0

PD

3 29·92 F 30

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

WIND SCALE.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4 m 43s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan to 21 May .....20·690

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden: GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

R No report

AS 0 30·03 S 56

L Torrens

B 3 30·13 — 64

G 28 30·17 R 52

Frost

PM 28 30·10 F 57

N 5 30·15 S 54

S 10 30·19 F 51

Foggy

C 42 30·13 F 57

SMOOTH SEA

E 14 30·19 R 48

GO 3 30·09 F 53

23 30·05 F 53 WP

14 30·34 F 56 BO

FINE—CALM GENERALLY

W 14 30·20 F 56

8 30·14 F 59 A

0 30·32 F 51 D

0 30·21 S 47 A A

CB — 30·07 S

8 30·16 F 51 M

0 30·09 F 52 P

Bar.

3 30·12 F 55

has fallen

about ·10

WEATHER MAP

22 MAY, 1878 —9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterd'ld	..	..	..	..
Grafton ..	b	78	44	0
Laverell ..	b	64	31	0
Bourke ..	c	79	54	0
Narrabri..	b	72	41	0
Armidale.	n	77	34	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	67	50	0
Murr'undi	b	60	39	0
Cassilis ..	b	68	31	0
Mus'brook	b	67	37	0
Dubbo ..	..	..	..	..
Mudgee ..	n	75	37	0
Maitland..	b	63	47	0
Newcastle	n	72	45	0
Orange ..	n	60	37	0
Bathurst..	b	61	28	0
Mt Victoria	n	55	33	0
Forbes ..	b	68	46	0
SYDNEY ..	b	64	49	0
Wentw'th.	o	79	48	0
Young ..	b	62	35	0
Woll'gong	b	64	32	0
Moss Vale	..	..	..	..
Euston ..	u	79	51	0
Goulburn	f	66	26	0
Wagga ..	n	65	38	0
Cape Geo.	b	59	54	0·44
Queanb'an	n	62	38	0
Deniliquin	g	71	46	0
Albury ..	c	60	35	0
Bodalla ..	n	68	33	0
Cooma ..	in	60	21	0
Eden	b	64	44	0
Gabo Isld.	b	63	47	0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan to 22 May .....20·691.

EXPLANATION —R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale, sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b —Blue sky
c —Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p —Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B No report

28 30·32 F 58 BO

FINE—CALM GENERALLY

G 28 30·14 F 51

Frost

PM 28 30·09 F 57

N 28 30·10 F 56

E 28 30·22 F 51

C 29 30·17 R 57

W 14 30·16 F 55

No report A

14 30·25 F 52 D

14 30·21 S 45 AA

Frost

Foggy

CB 30 30·11R

No report P

13 30·12 F 52 M

E 14 30·16 F 48

SMOOTH SEA

GO 14 30·07 F 52

23 30·06 F 60

23 30·01 F 55 WP

WEATHER MAP

23 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min	Rain.
Tenterfield	b	60	45	0
Grafton ..	b	77	45	0
Inverell ..	b	62	31	0
Bourke ..	c	77	53	0
Narrabri ..	c	72	55	0
Armidale .	n	57	35	0
Gunnedah	..	..	.	..
Tamworth	..	..	..	..
P. Macqrie	b	68	51	0
Murr'undi	c	59	37	0
Cassilis ..	g	65	35	0
Mus'brook	g	67	40	0
Dubbo ..	u	65	47	0
Mudgee ..	u	75	45	0
Maitland ..	c	66	45	0
Newcastle	b	71	69	0
Orange ..	c	57	33	0
Bathurst ..	g	65	34	0
Mt Victoria	g	56	40	0
Forbes ..	..	..	..	..
Sydney ..	g	65	51	0
Wentw'th.	g	73	50	0
Young ..	r	63	43	0·14
Woll'gong	c	64	51	0
Moss Vale	..	..	..	..
Euston ..	g	70	52	0
Goulburn	g	65	36	0
Wagga ..	r	65	50	0·18
Cape Geo.	g	62	54	0
Queanb'an	g	60	46	0
Deniliquin	f	65	48	0
Albury ..	n	62	42	0
Bodalla ..	o	74	34	0
Cooma ..	p	62	36	0
Eden	..	..	..	..
Gabo Isld.	c	64	51	0

PD

— 29·88 — 81

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for May.....5·369.
Total Rainfall from 1 Jan to 23 May .....20·692.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·02 — 68

L Torrens

B 3 30·13 — 62

G 28 30·12 F 53

Frost

FINE

56 30·23 F 55 BO

rain

GENERALLY CALM

PM 28 30·08 F 57

N 3 30·17 R 54

CLOUDY

6 30·14 F 52

W 14 30·21 R 54

0 30·09 — 57 A

0 30·35 R 53 D foggy

0 30·10 F 52 AA

C 0 30·02 F 59

SMOOTH SEA

CB 18 30·16R

rain

0 30·09 F 53 M

18 30·05 — 57 P

Showery

E No report

GO 28 30·00 F 58

Bar. has fallen about ·10

0 30·10 R 54

13 29·98 F 56 WP

WEATHER MAP.

24 MAY, 1878.--9 A.M.

COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min	Rain.
Tenterfield	..	..	..	..
Grafton	b	77	45	0
Laverell	..	..	..	..
Bourke	..	..	..	..
Narrabri	..	..	..	..
Armidale	b	58	34	0
Gunnedah	..	..	.	..
Tamworth	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	..	..	..	..
Cassilis	b	71	41	0
Mus'brook	..	..	..	..
Dubbo	b	68	48	0
Mudgee	g	72	42	0
Maitland	..	..	..	..
Newcastle	..	..	..	..
Orange	b	55	38	0·10
Bathurst	b	60	37	0
MtVictoria	..	..	..	..
Forbes	b	68	46	0
SYDNEY	b	63	50	0·01
Wentw'th.	c	58	46	0
Young	b	60	38	0
Woll'gong	b	65	50	0
Moss Vale	..	..	..	..
Euston	..	..	..	..
Goulburn	f	54	40	0
Wagga	f	65	46	0
Cape Geo.	b	63	50	0·05
Queanb'an	g	52	46	0
Deniliquin	g	74	49	0
Albury	u	59	48	0·03
Bodalla	p	68	43	0
Cooma	u	51	39	0·05
Eden	u	60	49	1·30
Gabo Isld.	c	63	54	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan to 24 May .....20·701.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

B No report

G 28 30·05 F 57

No report BO

GENERALLY CLOUDY foggy

PM No report

N No report

10 29·99 F 53

W 14 30 08 F 52

0 30·03 F 51 D

0 30·01 F 60 AA

Showery

22 29·92 F 55

Bar. has fallen about ·20

No report A

CB No report

No report P

No report M

E 14 29·97 — 55

GO 29·90 F 55

No report

No report

WEATHER MAP.

25 MAY, 1878.--9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min	Rain.
Tenterfield	..	..	..	..
Grafton	g	77	50	0
Laverell	b	66	47	0
Bourke	..	..	..	..
Narrabri	..	..	..	..
Armidale	b	60	39	0
Gunnedah	..	..	.	..
Tamworth	..	..	..	..
P. Macqrie	g	69	52	0·03
Murr'undi	o	63	48	1·20
Cassilis	c	70	43	0.02
Mus'brook	..	..	..	..
Dubbo	p	67	51	0
Mudgee	r	74	47	0
Maitland	g	65	49	0
Newcastle	..	..	..	..
Orange	g	58	38	0
Bathurst	t	66	37	0
Mt Victoria	g	62	40	0
Forbes	b	67	46	0
SYDNEY	c	65	51	0
Wentw'th.	g	68	49	0
Young	..	..	..	..
Woll'gong	b	64	47	0
Moss Vale	..	..	..	..
Euston	b	64	42	..
Goulburn	n	63	30	0
Wagga	t	60	48	0
Cape Geo.	b	61	50	0
Queanb'an	b	61	40	0
Deniliquin	g	63	40	0
Albury	t	64	40	0
Bodalla	g	68	38	0
Cooma	f	59	33	0
Eden	b	62	47	0
Gabo Isld.	b	62	50	0·01

PD

3 29 93 — 79

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 95s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan to 25 May .....20·704.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

B No report

G 28 29·96 F 63

PM 14 29·97 — 58

N No report

E 7 30·01 R 53

C 22 29·97 R 55

E 14 29·94 F 50

GO 3 29·86 F 53

8 29·87 — 54 WP

AS 8 30 09 -- 59

L Torrens

No report BO

CALM—CLOUDY GENERALLY

Showery

foggy

Frost

Bar. has fallen about 10

W 14 30·04 F 53

0 29·99 — 59 A

0 30·13 R 45 D

0 29·98 F 47 A A

CB — 29·97

3 29·99— 54 M

0 30·08 — 55 P

0 29·96 -- 54

WEATHER MAP.

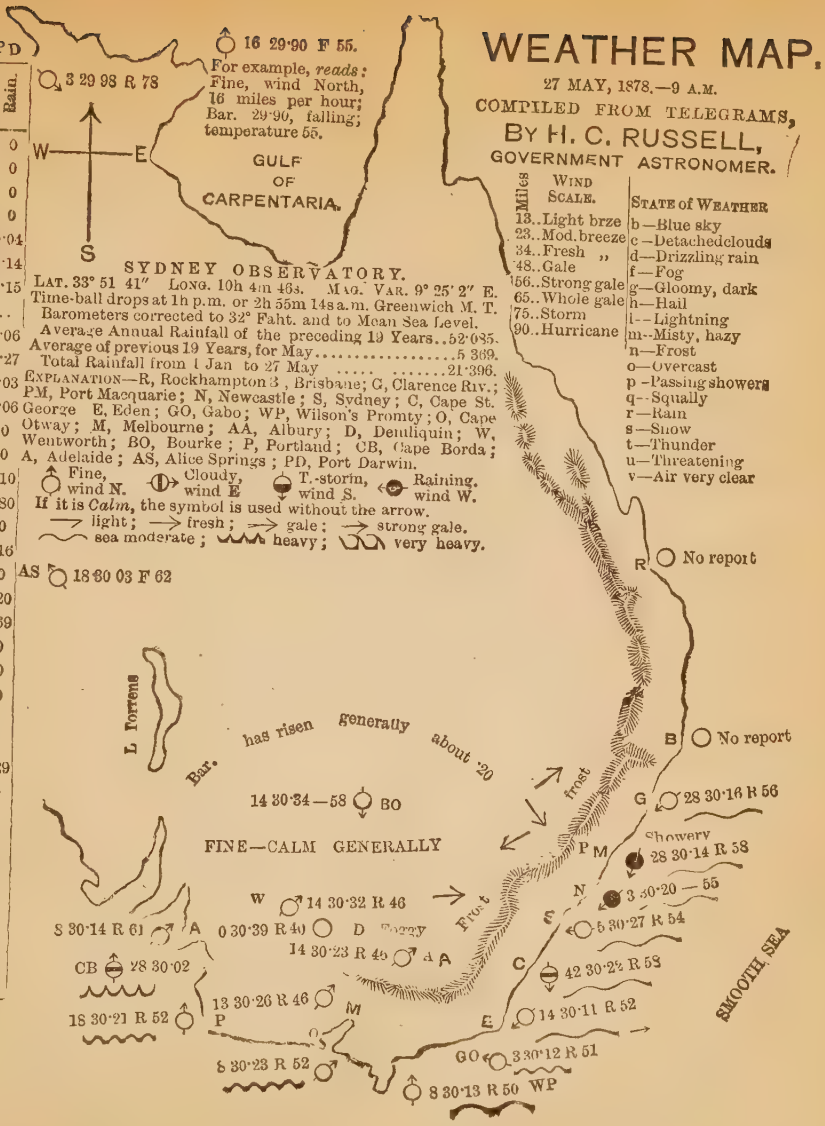
27 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	b	55	33	0
Grafton ..	b	80	48	0
Liverell ..	b	68	37	0
Bourke ..	b	77	45	0
Narrabri..	b	70	50	0·04
Armidale.	u	62	42	0·14
Gunnedah	b	76	43	0·15
Tamworth	..	..	..	..
P. Macqrie	p	71	55	0·06
Murr'undi	u	68	43	0·27
Cassilis ..	b	65	42	0·03
Mus'brook	b	74	44	0·06
Dubbo ..	b	65	45	0
Mudgee ..	n	70	43	0
Maitland..	g	67	49	0·10
Newcastle	r	73	53	0·80
Orange ..	b	56	40	0
Bathurst..	b	62	38	0·16
MtVictoria	n	56	38	0
Forbes ..	b	66	47	0·20
SYDNEY ..	b	62	51	0·69
Wentw'th.	b	71	37	0
Young ..	b	63	38	0
Woll'gong	b	63	52	0
Moss Vale	..	..	..	..
Euston ..	n	64	33	..
Goulburn	b	55	36	0·29
Wagga ..	f	65	25	0
Cape Geo.	c	62	56	0
Queanb'an	b	60	43	0
Deniliquin	b	67	56	0
Albury ..	b	67	34	0
Bodalla ..	b	67	35	0
Cooma ..	n	61	22	0
Eden	b	62	45	0
Gabo Isld.	b	60	48	0



WEATHER MAP.

28 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain.
Tenterfield	u	54	43	0
Grafton	b	78	53	0
Inverell	b	56	37	0
Bourke	b	75	47	0
Narrabri	b	69	48	0
Armidale	f	62	47	0
Gunnedah	b	73	42	0
Tamworth	..	..	..	..
P. Macqrie	b	67	54	0
Murr'undi	b	96	39	0
Cassilis	f	63	36	0
Mus'brook	b	69	41	0
Dubbo	..	..	..	..
Mudgee	n	77	41	0
Maitland	b	65	43	0
Newcastle	b	72	47	0
Orange	b	57	37	0
Bathurst	n	62	30	0
Mt Victoria	n	53	35	0
Forbes	..	..	..	..
SYDNEY	b	62	48	0·01
Wentw'th.	c	76	43	0
Young	b	59	36	0
Wol'gong	b	68	49	0
Moss Vale	..	..	..	..
Euston	b	71	34	0
Goulburn	b	62	29	0
Wagga	n	65	25	0
Cape Geo.	c	59	49	0
Queanb'an	n	62	36	0
Deniliquin	b	68	37	0
Albury	o	66	35	0
Bodalla	r	60	32	0
Cooma	nf	61	20	0
Eden	b	59	43	0
Gabo Isld.	b	59	47	0

PD

3 29 93 F 80

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4m 46s. MAG. VAR. 9° 25' 2" E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan to 28 May .....21·401.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney: C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
156..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS — 30·04 R 62

L Torrens

42 30·41 R 58 BO

FINE GENERALLY

Frost

B 3 30·19 — 65

G 14 30·19 R 58

PM 28 30·18 R 58

N 5 30·20 S 53

S 8 30·25 F 50

W 22 30·14 F 51

18 29·98 F 55 A

14 30·30 F 46 D

14 30·22 F 45 AA

C 28 30·14 F 54

Foggy

SMOOTH SEA

CB 40 29·80

18 30·09 F 58 M

E 14 30·17 R 45

28 30·00 F 55 P

rain

Bar. has fallen about ·20

40 29·99 F 58 O

GO 23 30·10 F 52

23 30·00 F 53 WP

WEATHER MAP,

29 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	55	43	0
Grafton	b	79	52	0
Inverell	b	63	33	0
Bourke	b	75	51	0
Narrabri	b	73	45	0
Armidale	b	60	37	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	h	69	50	0
Murr'undi	b	63	50	0
Cassilis	b	70	34	0
Mus'brook	b	68	40	0
Dubbo	f	65	53	0
Mudgee	i	75	38	0
Maitland	b	63	43	0
Newcastle	b	60	49	0
Orange	n	57	33	0
Bathurst	f	64	32	0
Mt Victoria	b	57	40	0
Forbes	b	66	47	0
SYDNEY	c	63	48	0·01
Wentw'th.	c	73	36	0
Young	b	62	37	0
Woll'gong	b	65	45	0
Moss Vale	..	..	..	..
Euston	b	77	35	0
Goulburn	..	..	..	..
Wagga	n	65	23	0
Cape Geo.	b	64	51	0
Queanb'an	n	61	37	0
Deniliquin	b	69	42	0
Albury	c	64	42	0
Bodalla	b	68	35	0
Cooma	n	60	28	0
Eden	b	60	47	0
Gabo Isld.	b	61	51	0

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan to 29 May .....21·407.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 8 30 03 F 61

L. Torrens

28 30·19 F 58 BO

FINE GENERALLY

W 14 30·23 R 44

8 30·15 R 55 A 0 30·21 F 47 D frost

0 30·11 F 52 A

CB 28 30·06 squally

14 30·04 F 57 M

23 29·99 F 54 P

Bar. has risen about ·20

23 29·98 F 55

8 29·88 F 55 WP

GO 14 29·93 F 54

E 14 30·03 F 54

C 14 30·14 S 56

Frost

S 8 30·16 F 50

N 5 30·14 F 56

PM 14 30·13 F 57

G 28 30·17 F 55

B No report

R No report

Foggy

SMOOTH SEA

WEATHER MAP.

30 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	n	55	33	0
Grafton	f	77	48	0
Inverell	b	61	32	0
Bourke	c	80	47	0
Narrabri	c	75	34	0
Armidale	n	68	35	0
Gunnedah	c	78	33	0
Tamworth	..	..	..	..
P. Macquarie	b	69	48	0
Murr'undi	g	62	31	0
Cassilis	b	70	38	0
Mus'brook	f	68	39	0
Dubbo	c	64	43	0
Mudgee	n	74	41	0
Maitland	g	64	45	0
Newcastle	g	70	50	0
Orange	c	58	35	0
Bathurst	f	66	34	0
Mt Victoria	o	60	44	0
Forbes	n	68	51	0
SYDNEY	g	66	51	0
Wentw'th	..	..	.	..
Young	b	65	36	0
Woll'gong	c	70	52	0
Moss Vale	..	..	..	..
Euston	..	..	..	..
Goulburn	b	65	36	0
Wagga	n	64	23	0
Cape Geo.	b	66	53	0
Queanb'an	b	62	35	0
Deniliquin	..	..	..	..
Albury	b	70	33	0
Bodalla	b	78	37	0
Cooma	n	60	26	0
Eden	b	62	47	0
Gabo Isld.	b	73	51	0

PD

13 29·83 — 79

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2′ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035

Average of previous 19 Years, for May.....5 369.

Total Rainfall from 1 Jan to 30 May .....21·409.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90	Hurricane

STATE of WEATHER

b—Blue sky

c—Detachedclouds

d—Drizzling rain

f—Fog

g—Gloomy, dark

h—Hail

l—Lightning

m—Misty, hazy

n—Frost

o—Overcast

p—Passing showers

q—Squally

r—Rain

s—Snow

t—Thunder

u—Threatening

v—Air very clear

R No report

AS 3 30 00 F 62

B 3 30·15 — 93

G 30·12 F 55

PM 14 30·07 F 56

N 8 30·05 F 56

S 7 30·09 F 54

C 28 30·03 F 57

E 14 30·00 F 50

GO 2 29·89 F 55

34 29·83 F 54 WP hail squally

L Torrens

0 30·26 R 54 BO

FINE GENERALLY

W No report

No report D

0 30·11 S 42 A A

8 30·16 R 54 A

CB 13 30·10 R

13 30·07 R 55 M

23 30·05 R 52 P

23 30·01 R 52

Showery

Foggy

Frost

Bar. has fallen about ·10

SMOOTH SEA

WEATHER MAP.

31 MAY, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	n	53	31	0
Grafton ..	b	79	59	0
Inverell ..	..	..	..	..
Bourke ..	b	79	49	0
Narrabri..	..	..	..	..
Armidale.	n	60	35	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	70	49	0
Murr'undi	b	67	40	0
Cassilis ..	b	75	36	0
Mus'brook	..	..	..	..
Dubbo ...	c	64	45	0
Mudgee ..	g	75	43	0
Maitland..	b	66	45	0
Newcastle	b	72	49	0
Orange ...	g	58	37	0
Bathurst..	g	64	37	0
MtVictoria	g	57	40	0
Forbes ...	p	67	51	0
SYDNEY ...	g	67	48	0·01
Wentw'th.	b	73	33	0
Young ...	r	58	35	0·08
Woll'gong	b	60	57	0
Moss Vale	..	..	..	..
Euston ...	u	75	33	0·12
Goulburn	b	62	27	0
Wagga ...	n	65	20	0
Cape Geo.	b	62	50	0
Queanb'an	n	60	34	0
Deniliquin	u	67	38	0·05
Albury ...	g	65	33	0
Bodalla ...	n	73	31	0
Cooma ...	n	65	22	0
Eden	b	64	44	0
Gabo Isld.	c	68	48	0

PD

8 29·88 R 80

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 48s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·035.
Average of previous 19 Years, for May.....5 369.
Total Rainfall from 1 Jan to 31 May .....21·417.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS — 30 03 — 38

L. Torrens

42 30·22 F 54 BO

FINE—CALM GENERALLY

W 14 30·23 — 44 rain

3 30·16 S 52 A 0 30·21 — 47 D

0 30·07 F 41 AA

CB 23 30·13 R squally

23 30·05 S 51 P

8 30·05 F 53 M

23 30·01 S

GO 3 29·89 S 51

33 29·81 F 53 WP

B 3 30·09 F 59

G 28 30·05 F 54

PM 14 29·99 F 55

N 4 30·02 F 55

S 5 30·04 F 51

C 28 30·01 F 54

E 14 29·97 F 49

frost

Frost

Bar. has fallen about .10

SMOOTH SEA

WEATHER MAP.

1 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterf'ld	b	55	32	0
Grafton ..	g	73	50	0
Inverell ..	b	78	59	0
Bourke ..	b	79	49	0
Narrabri ..	n	63	32	0
Armidale ..	n	59	37	0
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macarie	b	66	50	0
Murr'undi	g	64	38	0
Cassilis ..	..	..	..	..
Mus'brook	b	75	41	0
Dubbo ..	b	64	44	0
Mudgee ..	f	74	36	0
Maitland ..	b	65	47	0·37
Newcastle	b	69	47	0·03
Orange ..	c	54	37	0·10
Bathurst ..	g	54	32	0
Mt Victoria	..	..	..	..
Forbes ..	c	66	49	0
SYDNEY ..	b	60	49	0·04
Wentw'th.	c	64	38	0·03
Young ..	r	59	34	0·18
Wol'gong	b	63	49	0
Moss Vale	..	..	..	..
Euston ..	n	72	40	0
Goulburn	u	53	33	0·05
Wagga ..	b	65	20	0
Cape Geo.	r	62	47	0
Queanb'an	b	55	32	0
Deniliquin	b	65	39	0·03
Albury ..	b	58	38	0·01
Bodalla ..	..	..	..	..
Cooma ..	p	58	23	0·10
Eden	u	60	48	0·15
Gabo Isld.	p	57	48	0·23

PD

18 30·14 R 79

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 1 June .....21·456.

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 3 30 30 R —

L Torrens

B 3 30·02 F 68

foggy Frost

G 28 29·82 F 56

42 30·34 R 52 BO

CLOUDY GENERALLY

PM 14 29·94 F 54

N 11 29·96 F 54

W 28 30·21 F 45

S 8 29·97 F 52

3 30·43 R 48 A 14 30·30 R 44 D

14 30·05 F 47 AA

C 56 29·92 F 54

CB 13 30·43 R

Bar. has risen about ·30

23 30·22 R 50 M

E 14 29·94 F 50

40 30·37 R 51 P

GO 4 29·84 F 49

28 30·27 R 49

S 34 29·97 R 50 WP

SMOOTH SEA

WEATHER MAP.

3 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	55	30	0
Grafton ..	r	73	39	0·92
Inverell ..	b	58	29	0
Bourke ..	c	59	41	0
Narrabri..	..	..	..	..
Armidale.	u	57	33	0
Gunnedah	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	..	..	..	..
Murr'undi	r	56	32	1·22
Cassilis ..	c	55	48	0·44
Mus'brook	u	66	30	0·88
Dubbo ..	b	64	35	0
Mudgee ..	b	67	30	0
Maitland..	p	62	44	1·20
Newcastle	q	66	43	0·90
Orange ..	b	44	32	0
Bathurst..	b	50	28	0
Mt Victoria	u	47	30	0·97
Forbes ..	b	68	47	0
SYDNEY ..	u	58	45	3·00
Wentw'th.	..	..	..	..
Young ..	..	..	..	..
Woll'gong	p	58	44	4·00
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	b	52	30	0
Wagga ..	n	66	23	0
Cape Geo.	..	..	..	..
Queanb'an	b	52	33	0
Deniliquin	..	..	..	..
Albury ..	..	..	..	..
Bodalla ..	c	54	45	0·07
Cooma ..	p	42	33	0·10
Eden	u	56	47	0·22
Gabo Isld.	u	57	49	0·18

PD

23 29·89 R 80

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

State of Weather

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fahr. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085.
Average of previous 19 Years, for June .....5·519.
Total Rainfall from 1 Jan to 3 June .....24·451.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

R No report

AS 18 30 12 R 45 frost

L Torrens

B 3 29·91 F 56

70 30·32 F 59 BO

G 29·94 R 49

Cloudy on Coast

PM No report

N 30·04 R 60

W No report

No report D Frost

No report A A

0 30·44 R 49 A

20 30·13 R 60

CB 23 30·38 R

Foggy

C No report

3 30·38 R 43 M

P

28 30·44 R 53

E 14 30·20 R 52

8 30·39 R 51

GO 6 30·12 R 54

23 30·17 R 50 WP

Bar. has fallen about 30

WEATHER MAP.

4 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b.	50	33	0
Grafton ..	b	68	49	0·28
Inverell ..	b	60	37	0
Bourke ..	b	66	39	0
Narrabri..	..	..	..	..
Armidale.	u	52	34	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	p	66	51	1·11
Murr'undi	c	51	32	0
Cassilis ..	b	57	33	0
Mus'brook	b	60	43	0·02
Dubbo ..	b	61	37	0
Mudgee ..	n	70	33	0
Maitland..	b	57	47	0·24
Newcastle	o	61	46	0·31
Orange ..	n	53	30	0
Bathurst..	b	56	24	0
MtVictoria	b	45	30	0
Forbes ..	b	66	45	0
SYDNEY ..	c	55	48	0·57
Wentw'th.	n	65	32	0
Young ..	b	52	30	0
Woll'gong	b	65	49	0
Moss Vale	..	..	..	..
Euston ..	n	63	30	0
Goulburn	n	55	26	0
Wagga ..	n	66	28	0
Cape Geo.	c	53	51	0·07
Queanb'an	n	56	28	0
Deniliquin	n	59	30	0
Albury ..	b	60	35	0
Bourke ..	c	63	38	0
Cooma ..	c	47	34	0
Eden	c	59	50	0
King Isld	p	56	50	0·07

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

18 29·90 R 72

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 4 June .....25·021.

EXPLANATION—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	Wind Scale.	State of Weather
13..	Light breze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	i—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·07 F 42 Frost

L. Torrens

B 3 30·09 R 61

G 42 30·12 R 52

0 30·36 R 48 BO

FINE GENERALLY

Frost

PM 56 30·04 R 54

N 6 30·11 R 54

E 12 30·17 R 50

W 14 30·43 — 39

8 30·39 F 46

14 30·28 — 56 D

0 30·21 — 37 A

CB 23 30·22 F

C 42 30·13 R 55

Bar. has fallen about ·10

0 30·28 F 49 W

13 30·31 F 51 P

23 30·15 F 53

8 30·29 F 53

GO 7 30·06 F 55

3 30·13 F 52 WP

WEATHER MAP.

5 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wr'ther.	Max.	Min.	Rain
Tenterf'ld	b	60	40	0
Grafton ..	b	74	42	0
Inverell ..	b	58	35	0
Bourke ..	b	66	39	0
Narrabri ..	b	60	38	0
Armidale ..	n	58	32	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie	b	63	51	0
Murr'undi	u	59	49	0
Cassilis ..	n	65	28	0
Mus'brook	b	65	42	0
Dubbo ..	n	58	36	0
Mudgee ..	b	70	31	0
Maitland ..	b	60	49	0
Newcastle	b	60	47	0
Orange ..	n	53	27	0
Bathurst ..	u	56	23	0
Mt Victoria	n	46	34	0
Forbes ..	b	63	39	0
SYDNEY ..	b	59	48	0·04
Wentw'th.	n	61	27	0
Young ..	b	53	31	0
Woll'gong	c	68	50	0
Moss Vale	..	..	..	..
Euston ..	n	62	29	0
Goulburn	n	54	24	0
Wagga ..	n	66	25	0
Cape Geo.	c	58	52	0
Queanb'an	b	54	27	0
Denliquin	n	59	29	0
Albury ..	n	60	26	0
Bodalla ..	c	53	46	0
Cooma ..	n	54	22	0
Eden ..	u	57	48	0·02
Gabo Isld.	o	57	49	0·04

18 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

Q 18 29·40 S 73

W — E — S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 5 June .....25·057.

EXPLANATION—R, Rockhampton B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 30·00 F 50

B 3 30·03 F 54

G 28 30·14 R 50

PM 42 30·00 F 56

N 10 30·06 F 55

E 16 30·12 F 51

C 56 30·07 F 56

E 14 30·10 F 50

GO 4 30·06 S 50

18 30·04 F 51 WP

3 30·15 F 48

M 8 30·18 F 42

P 8 30·14 F 41

CB 23 30·06 F

A 0 30·34 R 32

D 0 30·18 F 37 AA

8 30·16 F 47

W 14 30·25 F 34

Foggy

28 30·36 S 48 BO

FINE GENERALLY

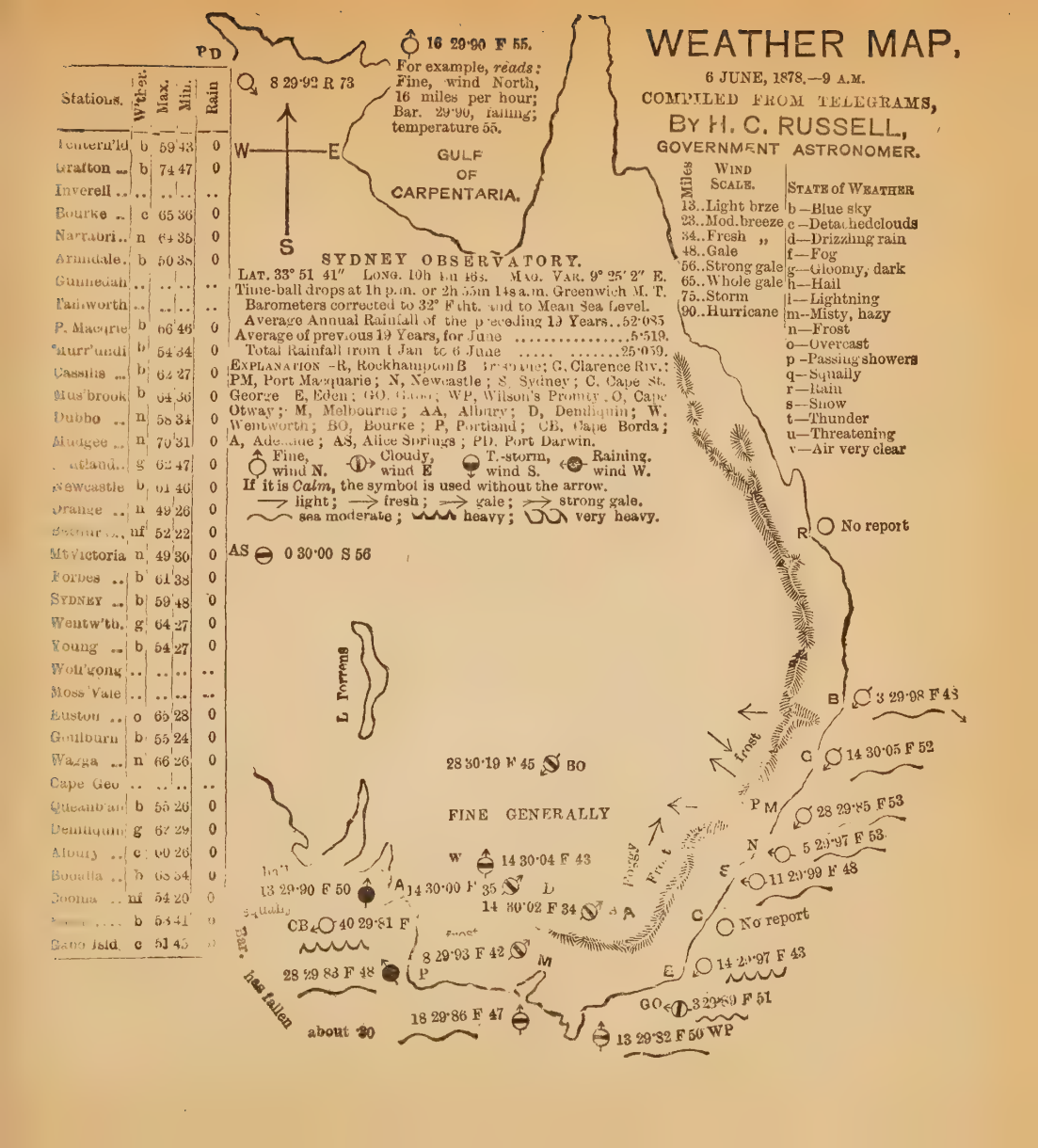
L. Torrens

frost

Frost

frost

Bar. has fallen about ·20


WEATHER MAP.
6 JUNE, 1878.—9 A.M.
COMPILED FROM TELEGRAMS,
BY H. C. RUSSELL,
GOVERNMENT ASTRONOMER.
PD
8 29·92 R 73
W
E
S
16 29·90 F 55.
For example, reads: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.
GULF OF CARPENTARIA.
SYDNEY OBSERVATORY.
LAT. 33° 51′ 41″ LONG. 10h 1m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Fht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085
Average of previous 19 Years, for June .....5·519.
Total Rainfall from 1 Jan to 6 June .....25·059.
EXPLANATION –B, Rockhampton B Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promy.; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.
Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.
If it is Calm, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.
Miles Wind Scale.
13..Light brze
23..Mod. breeze
34..Fresh ,,
48..Gale
56..Strong gale
65..Whole gale
75..Storm
90..Hurricane
STATE OF WEATHER
b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear
R No report
AS 0 30·00 S 56
L Torrens
28 30·19 F 45 SO
FINE GENERALLY
W 14 30·04 F 43
13 29·90 F 50
A 14 30·00 F 35 SW
L 14 30·02 F 34 SW
A
CB 40 29·81 F
8 29·93 F 42 SW
M
28 29·83 F 48
P
18 29·86 F 47
about 30
has fallen
13 29·82 F 50 WP
GO 13 29·80 F 51
E 14 29·97 F 43
C No report
B 3 29·98 F 43
C 14 30·05 F 52
PM 28 29·85 F 53
N 5 29·97 F 53
E 11 29·99 F 48
frost
Passing
Fine
Fair
frost

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	59	43	0
Grafton	b	74	47	0
Inverell	..	..	..	..
Bourke	c	65	36	0
Narrabri	n	64	35	0
Armidale	b	50	38	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	66	46	0
Murrurundi	b	54	34	0
Cassilis	b	64	27	0
Mudbrook	b	64	36	0
Dubbo	n	58	34	0
Mudgee	n	70	31	0
Maitland	g	62	47	0
Newcastle	b	61	46	0
Orange	n	49	26	0
Goulburn	nf	52	22	0
Mt Victoria	n	49	30	0
Forbes	b	61	38	0
SYDNEY	b	59	48	0
Wentw'th.	g	64	27	0
Young	b	54	27	0
Wollgong	..	..	..	..
Moss Vale	..	..	..	..
Euston	o	65	28	0
Goulburn	b	55	24	0
Wagga	n	66	26	0
Cape Geo	..	..	..	..
Queanb'an	b	55	26	0
Deniliquin	g	67	29	0
Albury	c	60	26	0
Boorilla	b	65	34	0
Coonia	nf	54	20	0
[illegible]	b	54	41	0
Cape Jaffa	c	51	45	0

WEATHER MAP.

7 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Rockhampton	b	59	33	0
Grafton ..	b	70	48	0
Laverell ..	b	53	27	0
Bourke ..	c	67	43	0
Narrabri ..	c	60	33	0
Armidale .	n	51	34	0
Goulburn ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macquarie	b	65	45	0
Murrumbidgee	c	52	39	0
Cassilis ..	b	57	33	0
Mudgee ..	b	62	41	0
Dubbo ..	u	57	35	0
Wagga ..	u	65	39	0
Maitland ..	b	60	48	0
Newcastle ..	b	65	46	0
Orange ..	s	40	29	0
Bathurst ..	g	55	26	0
Mt Victoria	n	49	33	0
Forbes ..	b	65	45	0
SYDNEY ..	b	60	46	0
Wentw'th.	b	59	37	0·23
Young ..	..	..	..	..
Wollongong	b	65	46	0
Moss Vale	..	..	..	..
Euston ..	b	67	38	0·23
Goulburn	u	59	30	0
Wagga ..	p	67	29	0·24
Cape Geo.	b	59	47	0
Queanbeyan	c	52	30	0
Cunningham	g	59	41	0·06
Albury ..	g	58	32	0·16
Bourke ..	b	66	34	0
Cooma ..	n	50	26	0
Cape	c	55	43	0
Lord Hld.	g	60	45	0

PD

8 29·91 F 74

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
..4..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 45s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Raintall of the preceding 19 Years..52·085
Average of previous 19 Years, for June .....5·519.
Total Rainfall from 1 Jan to 7 June ....25·059.

EXPLANATION.—R, Rockhampton B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Cabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

R No report

AS 23 30·03 R 58

L. Torrens

28 30·09 F 47 BO

FINE GENERALLY

Snow

Frost

frost

B 3 29·91 F 61

G 28 26·89 F 53

PM

14 29·79 F 52

N 10 29·80 F 53

O 29·79 F 49

W 28 29·95 F 44

13 29·92 N 53

A 14 29·89 F 43

D

0 29·77 F 46

A

C 42 29·75 F 51

CB 34 29·89 R

squally

8 29·68 F 45

M

34 29·66 F 52

P

14 29·65 F 48

23 29·61 F 47

GO 28 29·61 F 49

8 29·53 F 47 WP

Bar. has fallen about ·30

SMOOTH SEA

WEATHER MAP.

JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	50 29		0
Grafton ..	b	72 43		0
Inverell ..	b	52 27		0
Bourke ..	b	69 43		0
Narrabri..	b	64 37		0
Armidale..	u	50 37		0·08
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	65 42		0
Murr'undi	c	53 39		0
Cassilis ..	b	57 40		0
Mus'orook	g	64 43	0	05
Dubbo ..	b	58 34		0
Mudgee ..	u	59 42	0	10
Maitland..	c	60 45		0
Newcastle	b	62 46		0
Orange ..	g	59 35		0·50
Bathurst..	c	48 37		0·15
Mt Victoria	g	45 33		0
Forbes ..	b	63 43		0
SYDNEY ..	b	60 46		0
Wentw'th.	b	58 33		0
Young ..	r	50 41		0·05
Wol'gong	b	71 45		0
Moss Vale	..	..	..	..
Euston ..	b	56 32		0
Goulburn	u	56 37		0
Wagga ..	u	55 45		0·17
Cape Geo.	b	60 44		0
Queanb'an	b	51 33		0
Deniliquin	b	55 34		0
Albury ..	b	54 39		0·30
Bourke ..	n	63 28		0
Cooma ..	n	57 21		0
Eden	b	55 49		0
Gabo Isld.	c	52 45		0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years.. 52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 1 June .....25·059.

EXPLANATION—R, Rockhampton B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS No report

R No report

L Torrens

28 30·19 R 48 BO

Cloudy generally Inland

B 3 29·91 S 57

G 14 26·91 R 54

PM 42 29·75 F 52

N 9 29·77 F 53

S 10 29·77 F 49

C 42 29·75 S 50

E 14 29·63 F 47

GO 29·59 F 51

23 29·78 R 49 WP

W 14 29·92 F 40

18 29·72 F 51 A

0 29·99 R 36 D

14 29·81 R 40 AA

CB 48 29·69 F

28 29·71 R 47

13 29·80 R 46 M

13 29·75 R 45

Bar. has fallen about .30

Front

SMOOTH SEA

WEATHER MAP.

10 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain.
Tenterfield	b	54	35	0
Grafton ..	b	70	41	0
Inverell ..	b	56	25	0
Bourke ..	b	65	45	0
Narrabri..	b	64	41	0
Armidale.	u	50	37	0·03
Gunnedah	g	70	38	0·02
Tamworth	..	..	..	..
P. Macqrie	c	64	41	0
Murr'undi	u	56	40	0·38
Cassilis ..	p	59	45	0·04
Mus'brook	r	62	39	0·03
Dubbo ..	u	57	41	0·03
Mudgee ..	p	59	43	0·46
Maitland..	c	59	47	0
Newcastle	b	60	55	0
Orange ..	s	47	33	1 00
Bathurst..	u	52	31	0·60
Mt Victoria	g	47	32	0
Forbes ..	..	..	..	..
SYDNEY ..	b	61	47	0
Wentw'th.	b	58	38	0
Young ..	..	..	..	..
Woll'gong	b	66	45	0
Moss Vale	..	..	..	..
Euston ..	o	52	32	0
Goulburn	n	52	33	0
Wagga ..	..	..	..	..
Cape Geo.	c	57	43	0·05
Queanb'an	f	51	34	0·.3
Deniliquin	c	55	33	0·63
Albury ..	g	54	31	0·78
Bodalla ..	b	63	35	0
Cooma ..	n	44	27	0·10
Eden	c	56	45	0
Gabo Isld	gp	58	46	0·21

PD

No report

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North; 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″. LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 10 June .....25·059.

EXPLANATION—R, Rockhampton B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze.
23..	Mod. breeze
34..	Fresh „
48..	Gale. „
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

L Torrens

AS 8 30 10 -- 57

28 30·10 F 49 BO

Cloudy generally Inland

Snow

Raining

Foggy

Frost

W 14 30·01 R 48

0 29·99 R 50 A 14 29·96 F 42 D

0 29·79 F 41 AA

CB No report

No report M

13 29·84 R 49 P

8 29·82 R 47

18 29·66 F 47 WP squally hail

GO 6 29·53 F 43

E 14 29·65 R 48

C 42 29·71 F 47

S 29·73 F 49

N 8 29·72 F 57

PM 29·72 F 54

G 28 29·92 R 53

B 3 29·91 S 60

R No report

Bar. has risen about .10

SMOOTH SEA

WEATHER MAP.

11 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

By H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	54	35	0
Grafton	b	69	45	0
Inverell	b	53	27	0
Bourke	u	6	42	0
Narrabri	c	60	42	0
Armidale	b	48	35	0·04
Gunnedah	g	64	38	0
Tamworth	..	..	..	..
P. Macqrie	b	64	41	0
Murr'undi	b	54	34	0·10
Cassilis	b	51	42	0·09
Mus'brook	r	53	39	0·08
Dubbo	u	53	42	0
Mudgee	c	60	40	0·02
Maitland	b	59	49	0
Newcastle	b	62	50	0
Orange	u	45	31	0·10
Bathurst	c	46	37	0
Mt Victoria	b	43	32	0
Forbes	..	..	..	..
SYDNEY	b	57	44	0
Wentw'th.	c	62	45	0
Young	..	..	..	..
Woll'gong	b	64	45	0
Moss Vale	..	..	..	..
Euston	d	59	34	0·03
Goulburn	g	48	35	0
Wagga	..	..	..	..
Cape Geo.	b	57	43	0
Queanbeyan	p	52	30	0·13
Deniliquin	u	57	43	0
Albury	r	52	38	0·10
Bonalla	n	62	25	0
Cooma	n	53	22	0
Eden	b	56	39	0
Gabo Isld.	b	56	44	0·03

PD

No report

W E S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.
Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.
Barometers corrected to 32° Faht. and to Mean Sea Level.
Average Annual Rainfall of the preceding 19 Years..52·085
Average of previous 19 Years, for June .....5·519.
Total Rainfall from 1 Jan to 11 June ....25·059.

EXPLANATION.—R, Rockhampton B Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.
If it is *Calm*, the symbol is used without the arrow.
light; fresh; gale; strong gale.
sea moderate; heavy; very heavy.

Miles	Wind Scale.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER
b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS No report

L Torrens

14 30·26 R 47 BO

Cloudy generally Inland

W 42 29·93 F 51

18 29·86 F 53 A 42 29·89 F 46 D

14 29·87 R 46 AA

CB —29·72—

squally 28 29 51 F 46

18 29·62 - 48 M

P

23 29·47 F 47

Bar. has fallen about ·40 thunder

B 3 30·05 R 57

G 28 30·06 R 50

PM 42 29·95 R 49

N 14 29·97 R 51

12 29·97 R 48

28 29·89 R 47

14 29·63 R 43

GO 3 29·67 R 50

23 29·76 R 49 WP

Front

SMOOTH SEA

WEATHER MAP.

12 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Tenterfield	b	54	34	0
Grafton ..	b	66	33	0
Inverell ..	b	51	25	0
Bourke ..	b	66	47	0
Narrabri..	b	60	43	0
Armidale..	b	50	35	0
Grafton ..	g	66	35	0
Tamworth ..	..	..	..	..
P. Macquarie	b	62	39	0
Murrumbidgee	g	55	37	0
Cassilis ..	b	53	42	0
Muswellbrook	g	60	45	0
Dubbo ..	u	60	40	0
Mudgee ..	b	54	42	0
Maitland..	b	62	44	0
Newcastle	c	60	46	0
Orange ..	p	48	35	0·08
Bathurst..	o	47	41	0
Mt Victoria	g	44	35	0
Forbes ..	..	..	..	..
SYDNEY ..	b	59	49	0
Wentw'th.	c	63	41	0·13
Young ..	..	..	..	..
Woll'gong	b	63	46	0
Moss Vale	..	..	..	..
Euston ..	u	61	43	0·12
Goulburn	r	51	40	0
Wagga ..	..	..	..	..
Cape Geo.	b	57	49	0
Queanbean	r	49	39	0·40
Deniliquin	c	57	41	0·12
Albury ..	p	52	40	0·50
Boualia ..	q	64	52	0
Cooma ..	r	53	35	0
Eden	u	56	47	0
Gabo Isld.	o	54	47	0

PD

No report

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 12 June .....25·059.

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

AS No report

R No report

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh „		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Thr. atening
		v—Air very clear

L. Torrens

42 30·05 F 57 BO

Cloudy generally Inland

W 42 29·79 F 46

40 29·78 F 48 S A 42 29·70 F 45 D

28 29·56 F 45 AA

CB 40 29·70 F

Gale

squally

Raining

B 30 30·04 F 50

G 42 30·03 F 52

PM 28 29·87 F 49

N 25 29·80 F 54

C 25 29·68 F 57

42 29·62 F 55

E 14 29·40 F 49

GO 42 29·42 R 54

WP

Bar. has fallen about .30

SMOOTH SEA

WEATHER MAP.

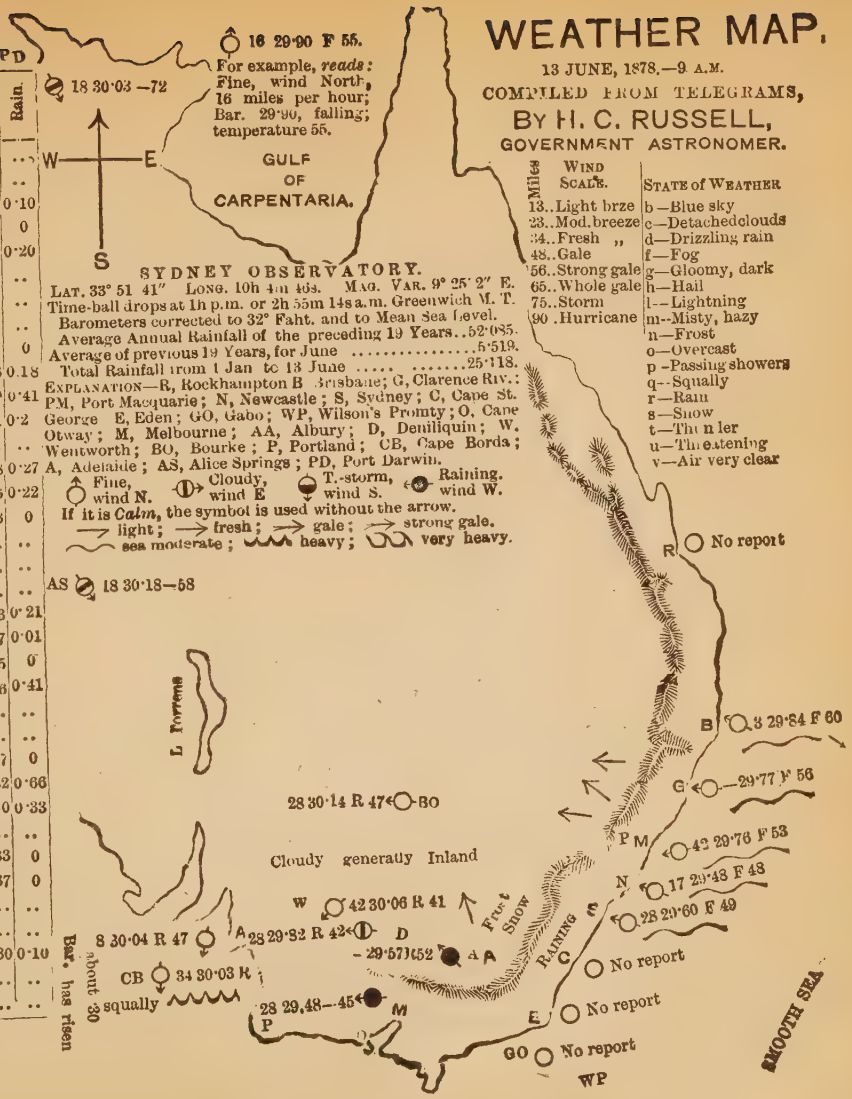
13 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfi'ld	..	..	..	..
Grafton ..	..	..	..	..
Inverell ..	g	54	32	0·10
Bourke ..	b	67	43	0
Narrabri ..	g	64	43	0·20
Armidale.	..	..	..	..
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	67	47	0
Murr'undi	u	55	36	0.18
Cassilis ..	u	59	39	0·41
Mus'brook	c	65	41	0·2
Dubbo ..	..	..	..	..
Mudgee ..	u	53	38	0·27
Maitland..	c	62	46	0·22
Newcastle	b	65	43	0
Orange ..	..	..	..	..
Bathurst..	..	..	..	..
Mt Victoria	..	..	..	..
Forbes ..	c	64	43	0·21
SYDNEY ..	b	63	47	0·01
Wentw'th.	b	54	35	0
Young ..	p	45	36	0·41
Wolfgong	..	..	..	..
Moss Vale	..	..	..	..
Euston ..	b	63	37	0
Goulburn	r	47	32	0·66
Wagga ..	b	74	40	0·33
Cape Geo.	..	..	..	..
Queanb'an	s	45	33	0
Deniliquin	c	50	37	0
Albury ..	..	..	..	..
Bodalla ..	..	..	..	..
Cooma ..	s f	41	30	0·10
Eden ..	..	..	..	..
Gabo Isld.	..	..	..	..



WEATHER MAP.

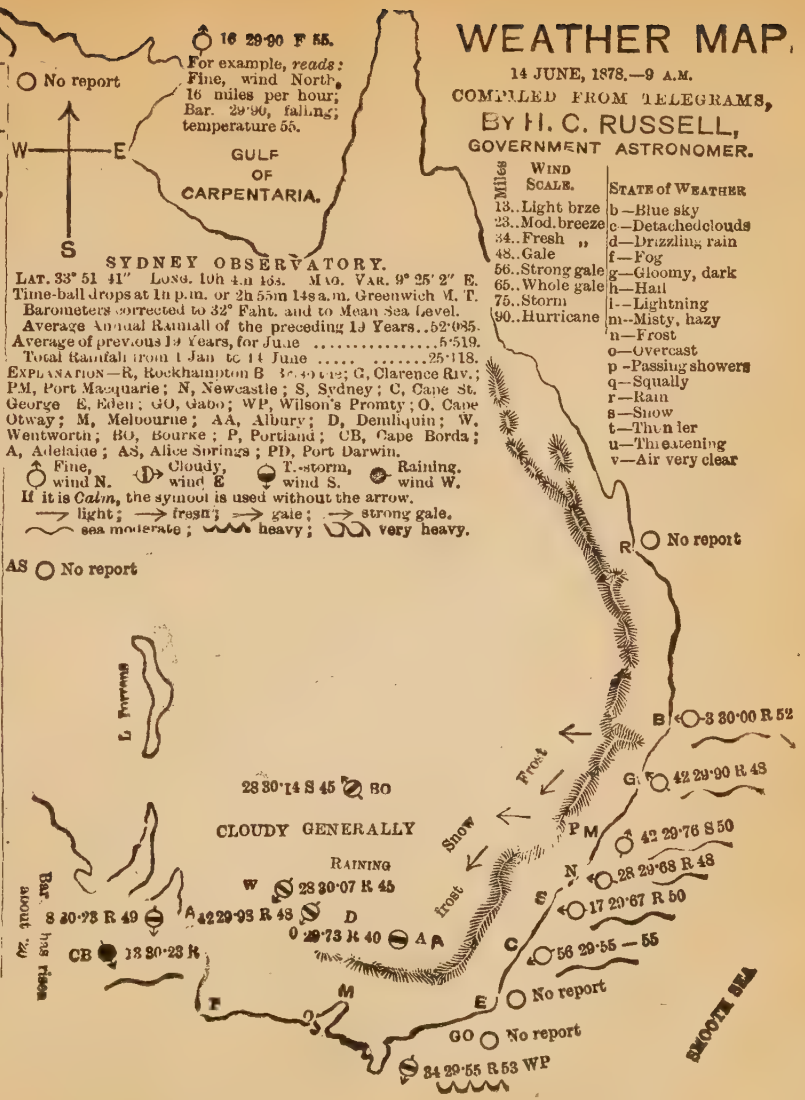
14 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterfield	o	57	..	0
Grafton ..	b	94	39	0
Inverell ..	b	56	20	0·05
Bourke ..	c	66	44	0
Narrabri..	n	55	33	0
Armidale.	s	45	32	0
Gunnedah	n	59	29	0
Tamworth	..	..	..	..
P. Macqrie	b	60	42	0
Murr'undi	u	47	35	0
Cassilis ..	u	43	38	0
Mus'brook	o	55	42	0
Dubbo ..	u	49	40	0
Mudgee ..	p	53	38	0·04
Maitland..	c	52	45	0
Newcastle	b	59	45	0
Orange ..	s	33	31	1·03
Bathurst..	p	41	36	0·17
Mt Victoria	s	37	30	0
Forbes ..	p	63	42	0·29
SYDNEY ..	b	55	48	0
Wentw'th.	c	55	37	0
Young ..	r	54	41	0·76
Wolfgong	b	54	46	0
Moss Vale	..	..	..	..
Euston ..	u	59	38	0
Goulburn	g	41	35	0
Wagga ..	r	43	34	0·50
Cape Geo.	..	..	..	..
Queanb'an	u	42	34	0·10
Deniliquin	c	60	40	0·10
Albury ..	g	47	32	0·73
Bodalla ..	..	..	..	..
Cooma ..	n	46	26	0
Eden	..	..	..	..
Gabo Isld	..	..	..	..



Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

WEATHER MAP

15 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	o	57	34	0
Grafton ..	b	63	45	0
Inverell ..	b	48	30	0
Bourke ..	c	59	38	0
Narrabri ..	n	53	35	0
Armidale.	g	43	34	0·03
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murr'undi	g	43	35	0·22
Cassilis ..	c	43	40	0·02
Mus'brook	b	54	35	0
Dubbo ..	..	..	..	..
Mudgee ..	g	53	38	0·18
Maitland..	b	54	47	0
Newcastle	b	58	47	0
Orange ..	g	44	34	0·82
Bathurst..	c	45	39	0·16
Mt Victoria	..	..	..	..
Forbes ..	r	64	42	0·11
SYDNEY ..	b	60	47	0
Wentw'th.	..	..	..	..
Young ..	g	49	42	0·44
Wollgong	b	58	49	0
Moss Vale	..	..	..	..
Euston ..	..	..	..	..
Goulburn	b	47	36	0
Wagga ..	g	54	40	0·05
Cape Geo.	b	55	46	0
Queanb'an	n	49	32	0
Deniliquin	..	..	..	..
Albury ..	m	55	29	0
Bourke ..	..	..	..	..
Cooma ..	u	49	34	0
Eden	b	57	47	0·30
Gabo Isld.	c	56	47	0·44

PD

No report

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 48s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 15 June .....25·18.

EXPLANATION.—R, Rockhampton B. Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..Light brze	
23..Mod. breeze	
34..Fresh ,,	
45..Gale	
56..Strong gale	
65..Whole gale	
75..Storm	
90 .Hurricane	

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

L Torrens

AS

R No report

B 3 30·12 R 53

C 42 30·12 R 52

42 30·23 R 44 BO

Cloudy generally Inland

PM No report

N 1 29·97 R 52

W No report

No report D

8 30·23 R 49 A

0 30·05 R 36 A A

10 30·02 R 49

C 42 29·96 R 49

CB 13 30·23 R

13 30·15 R 46 M

P

E 42 29·91 —51

GO 7 29·82 - 53

WP

Gale

Bar. has risen about ·30

SMOOTH SEA

WEATHER MAP.

17 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
[illegible]	n	57	[illegible]	0
[illegible]	b	64	[illegible]	0
[illegible]	b	[illegible]	[illegible]	0
[illegible]	..	..	..	..
[illegible]	n	50	[illegible]	0
[illegible]	o	44	[illegible]	0
[illegible]	..	..	..	..
[illegible]	..	..	..	..
Macquarie	b	60	57	0
Murr'undi	c	49	34	0
[illegible]	b	54	30	0
[illegible]	b	60	[illegible]	0
Dubbo	b	53	20	0
[illegible]	c	62	[illegible]	0
[illegible]	n	58	34	0
Newcastle	b	[illegible]	41	0
Orange	c	45	32	0
Bathurst	o	47	27	0
Mt Victoria	b	42	25	0
Forbes	g	65	45	0
SYDNEY	n	55	39	0
Wentw'th	c	60	44	0
Young	g	47	39	0
Wollgong	b	60	42	0
Moss Vale	..	..	..	..
Euston	u	58	43	0
Goulburn	u	49	27	0
Wagga	u	55	35	0
Cape Geo	b	54	42	0
Queanb'an	b	52	27	0
Deniliquin	g	50	35	0
Albury	n	51	33	0
Bodalla	n	63	26	0
Cooma	n	48	18	0
Eden	b	55	39	0
Gabo Isld	b	58	42	0

PD

13 29·98—76

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4 m 45s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fnt. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan. to 17 June ....25·119.

EXPLANATION.—R, Rockhampton B. Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George; E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE OF WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 0 30·10 F 46

L Torrens

B 3 30·19 R 50

G 28 30·27 R 46

frost

No report BO

FINE—CALM GENERALLY

PM 14 30·11—45

N 6 30·15 R 46

9 30·16 R 42

W 14 30·18—48

Frost

18 30·07 F 52

A 28 30·27—43 D

0 30·17 R 44 AA

C 28 30·12 R 45

SMOOTH SEA

Bar. has fallen

CB 34 29·93 F

squally

23 30·02 F 47 M

34 29·83 F 47 P

E 14 30·04 R 42

GO 42 29·99 R 46

about ·30

23 29·86—48

rain

No report WP

WEATHER MAP.

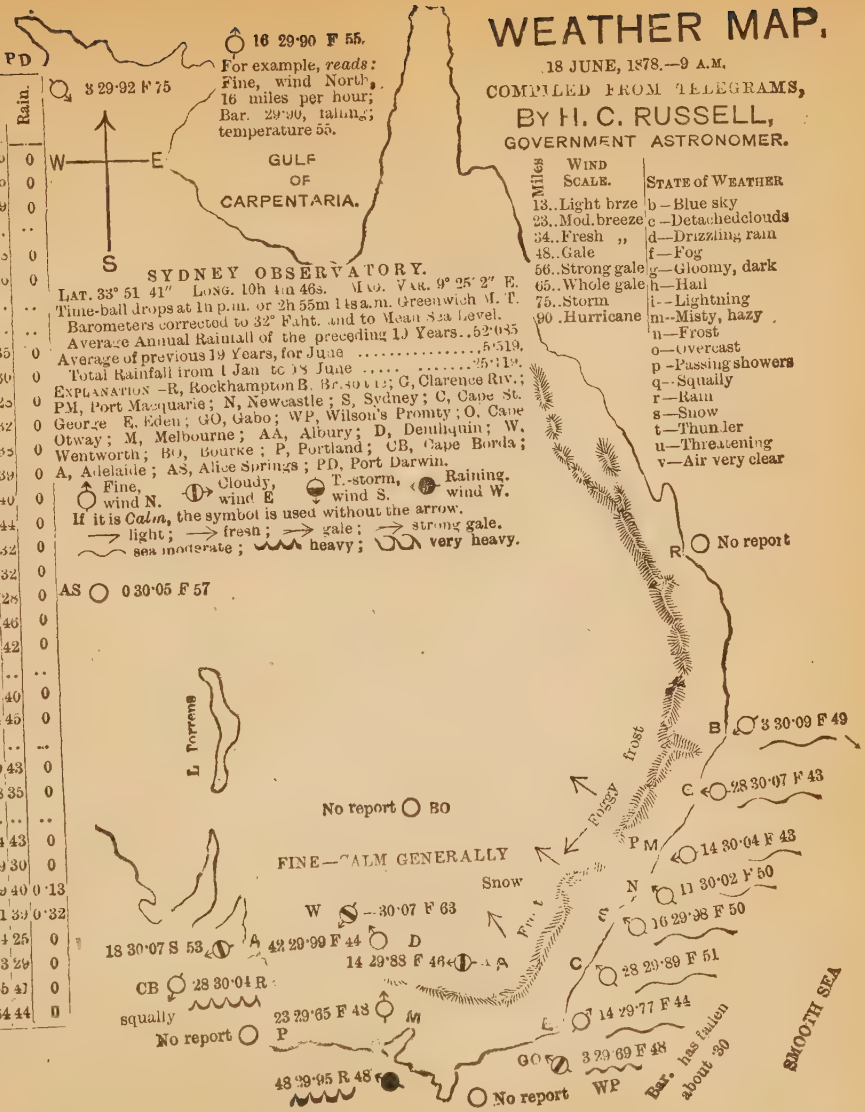
18 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Centerfl'd	n	54	16	0
Grafton ..	f	63	36	0
Inverell ..	b	60	19	0
Bourke ..	..	..	..	..
Narrabri ..	n	56	25	0
Armidale .	n	48	20	0
Tamworth	..	..	..	..
P. Macqrie	b	60	35	0
Murr'undi	b	47	30	0
Tassilis ..	b	54	25	0
Jus brook	b	56	32	0
Dubbo ..	c	51	35	0
Mudgee ..	n	53	39	0
Maitland ..	b	52	40	0
Newcastle	b	6	44	0
Orange ..	s	45	32	0
Bathurst ..	u	45	32	0
Mt Victoria	b	40	28	0
Forbes ..	g	64	46	0
SYDNEY ..	b	53	42	0
Wentw'th.	..	..	..	..
Young ..	b	49	40	0
Wollgong	b	54	45	0
Moss Vale	..	..	..	..
Euston ..	b	60	43	0
Goulburn	b	48	35	0
Wagga ..	..	..	..	..
Cape Geo.	b	54	43	0
Queanbeam	g	59	30	0
Deniliquin	b	49	40	0·13
Albury ..	c	51	39	0·32
Bodalla ..	n	64	25	0
Cooma ..	n	53	29	0
Eden	b	55	41	0
Gabo Isld.	o	64	44	0



WEATHER MAP.

19 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain.
Tenterfield	n	55	24	0
Grafton ..	b	69	36	0
Inverell ..	b	60	19	0
Bourke ..	..	..	..	..
Narrabri..	b	60	31	0
Armidale.	b	49	30	0
Gunnedah	b	67	31	0
Tamworth	..	..	..	..
P. Macqrie	c	60	37	0
Murr'undi	b	62	34	0
Cassilis ..	b	57	34	0
Mus brook	b	61	35	0
Dubbo ..	n	54	30	0
Mudgee ..	b	55	29	0
Maitland..	b	57	45	0
Newcastle	b	60	55	0
Orange ..	c	46	33	0·21
Bathurst..	b	49	36	0·12
Mt Victoria	b	44	33	0
Forbes ..	b	63	47	0
SYDNEY ..	b	60	49	0
Wentw'th.	n	60	34	0
Young ..	g	61	36	0·20
Wollgong	b	59	45	0
Moss Vale	..	..	..	..
Euston ..	f	60	34	0
Goulburn	g	50	35	0
Warga ..	n	56	40	0·16
Cape Geo.	b	58	46	0
Queanb'an	b	51	39	0·05
Deniliquin	b	54	36	0 03
Albury ..	g	51	39	0·11
Booalia ..	n	64	31	0
Cooma ..	n	51	29	0
Eden	b	58	48	0
Cabo Isld	b	64	47	0

PD

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

13 29·91 F 77

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 19 June .....25·119.

EXPLANATION—R, Rockhampton B. Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..Light brze		b—Blue sky
23..Mod. breeze		c—Detached clouds
34..Fresh ,,		d—Drizzling rain
48..Gale		f—Fog
56..Strong gale		g—Gloomy, dark
65..Whole gale		h—Hail
75..Storm		l—Lightning
90..Hurricane		m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·00 F 51

L. Torrens

B S 30·09 S 50

Frost

G 28 29·95 F 47

No report BO

FINE—CALM GENERALLY

PM 14 29·98 F 44

N 7 29·92 F 53

Foggy

W 28 30·19 R 43

Frost

E 10 29·96 F 51

0 30·15 R 49 A 14 30·14 R 40 D

0 29·95 R 44 AA

C 28 29·84 F 51

CB 13 30·11 R

18 29·92 F 48 M

34 29·92– 50 P

B 14 29·75 F 53

GO 5 29·65 F 51

28 29·78 F 48

28 29·64—47 WP rain

Bar has risen about ·20

squally

SMOOTH SEA

WEATHER MAP.

20 JUNE, 1878,—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	55	27	0
Grafton	c	60	45	0
Inverell	b	45	29	0
Bourke	..	..	..	..
Narrabri	c	61	35	0
Armidale	u	49	36	0
Gunnedah	b	70	35	0
Tamworth	..	..	..	..
P. Macquarie	g	62	40	0
Murrumbidgee	b	54	34	0
Cassilis	b	58	33	0
Musbrook	b	63	39	0
Dubbo	..	..	..	..
Mudgee	c	61	25	0
Maitland	c	59	44	0
Newcastle	b	59	44	0
Orange	c	46	35	0
Bathurst	b	49	33	0
Mt Victoria	b	43	31	0
Forbes	b	65	49	0
SYDNEY	b	61	43	0
Wentw'th.	f	59	36	0
Young	c	49	33	0
Wollongong	b	64	45	0
Moss Vale	..	..	..	..
Euston	f	60	34	0
Goulburn	n	47	31	0
Wagga	b	56	40	0·03
Cape Geo.	b	56	42	0
Queanbeyan	b	49	35	0
Deniliquin	n	52	36	0
Albury	o	51	30	0
Boualia	n	63	25	0
Cooma	n	55	21	0
Eden	u	60	45	0
Gabo Isld	o	58	45	0

PD

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, raining; temperature 55.

GULF OF CARPENTARIA.

W — E — S

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 1m 43s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·035

Average of previous 18 Years, for June .....5·519.

Total Rainfall from 1 Jan to 20 June .....25·115

EXPLANATION—R, Rockhampton B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh "
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

No report

AS

L. Torrens

B 3 30·11 R 51

G 14 30·09 R 48

PM 14 30·06 R 45

N 30·06 R 49

S 2 30·08 R 45

No report 80

FINE GENERALLY

Foggy

W 14 30·30 R 40

A 14 30·25 R 40 D

0 29·84 F 43 AA

Front

CB

Bar.

C 28 30·07 R 49

0 30·12 R 47 M

28 30·20 R 52 P

E 14 29·89 R 49

GO 8 29·83 R 49

SMOOTH SEA

No report about ·30

has risen

28 29·90 R 50 WP

WEATHER MAP

20 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Wther.	Max.	Min.	Rain
Centerfield	n	57	19	0
Grafton ..	b	73	38	0
Inverell ..	b	51	20	0
Bourke ..	..	..	..	..
Narrabri ..	b	62	30	0
Armidale.	n	49	27	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	62	40	0
Murrundi	n	52	28	0
Cassins ..	b	55	26	0
Mus'brook	g	65	30	0
Dubbo ..	n	54	33	0
Mudgee ..	b	50	29	0
Maitland ..	u	57	42	0
Newcastle	c	61	45	0
Orange ..	n	51	32	0
Bathurst ..	g	44	36	0
Mt Victoria	b	43	29	0
Forbes ..	c	64	45	0
SYDNEY ..	u	58	44	0
Wentw'th.	b	60	34	0
Young ..	u	48	32	0·06
Wollgong	n	61	47	0
Moss Vale	..	..	..	..
Euston ..	b	62	36	0
Goulburn	b	50	31	0
Wagga ..	b	56	40	0
Cape Geo.	p	58	47	0·04
Queanb'an	c	52	33	0
Deniliquin	f	47	32	0
Albury ..	o	52	33	0
Bodalla ..	n	63	34	0
Cooma ..	g	53	34	0
Eden	b	56	47	0·07
Gabo Isld.	g	54	48	0·18

PD

3 29·92—75

W — E

S

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4 m 16s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fant. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 20 June ....25·119.

EXPLANATION—R, Rockhampton B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden. GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
i—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0 29·95—47

R No report

B 3 30·09 F 57

G 28 30·06 F 45

PM 28 30·04 F 47

N 6 30·11 R 52

S 9 30·15 R 46

C 56 30·10 R 49

E 28 30·15 R 50

GO 9 30·07 R 52

18 30·15 R 46 WP

Bar. has risen about ·30

Frost

L Torrens

No report BO

FINE GENERALLY

W 14 30 42 R 40

3 30·34—47 A 0 30·40 R 39 D

0 30·41 R 41 AA

CB 8 30·29 — Foggy

0 30·32 R 43 M

8 30·27 R 46 P

8 30·29 R 48

WEATHER MAP.

22 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max.	Min.	Rain
Tenterd'ld	n	58	21	0
Grafton ..	n	70	38	0
Inverell ..	b	52	22	0
Bourke ..	b	65	30	0
Narrabri ..	b	60	31	0
Armidale ..	n	45	27	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macquarie	b	61	45	0
Murr'undi	c	51	29	0
Cassilis ..	b	58	24	0
Mus'brook	g	55	30	0
Dubbo ..	n	53	32	0
Mudgee ..	b	60	28	0
Maitland ..	c	55	43	0·02
Newcastle	b	60	46	0
Orange ..	n	42	28	0
Bathurst ..	n	57	26	0
Mt Victoria	n	46	29	0
Forbes ..	b	65	46	0
SYDNEY ..	b	57	43	0
Wentw'th.	f	62	32	0
Young ..	n	49	33	0
Wollgong	b	64	35	0
Moss Vale	..	..	..	..
Euston ..	f	60	34	0·02
Goulburn	n	52	22	0
Wagga ..	b	56	40	0
Cape Geo.	b	54	49	0
Queanbeyan	n	58	27	0
Deniliquin	f	54	33	0
Albury ..	n	56	27	0
Bodana ..	n	62	28	0
Cooma ..	n	51	23	0
Eden	b	57	44	0
Lord Isld	f	55	46	0·10

WEATHER MAP

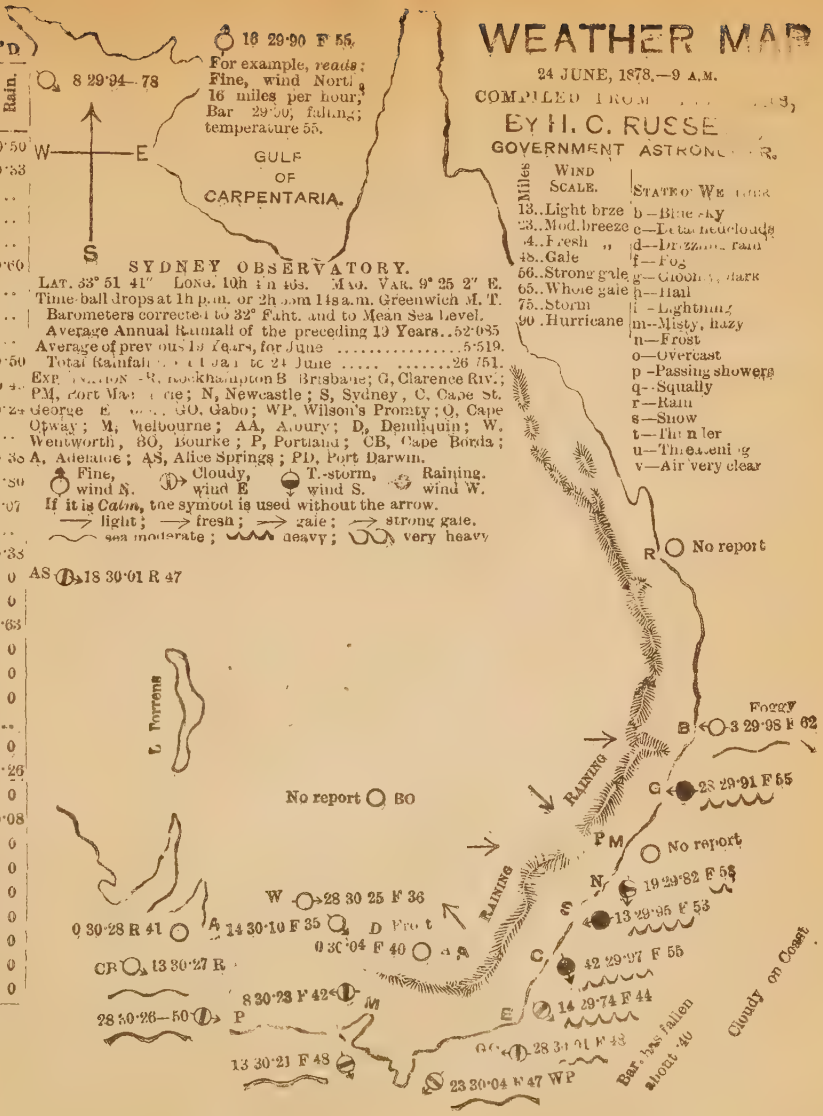
24 JUNE, 1878.—9 A.M.

COMPILED FROM [illegible]

BY H. C. RUSSE[illegible]

GOVERNMENT ASTRONO[illegible]R.

[illegible]	Wther.	Max.	Min.	Rain.
Tenterfield	r	50	29	0·50
Grafton ..	r	72	[illegible]	0·53
Inverell ..	..	..	..	..
Bourke ..	..	..	..	..
Nar[illegible]	..	..	..	..
Armidale ..	b	[illegible]	34	0·60
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macqrie ..	..	..	..	..
Murr'undi	g	51	[illegible]	0·50
Cassins ..	c	[illegible]	[illegible]	0·4[illegible]
Mus'b[illegible]	r	[illegible]	[illegible]	0·24
Dubbo ..	..	..	..	..
Mudgee ..	r	60	42	0·38
Maitland ..	r	[illegible]	40	1·80
Newcastle	o	62	40	1·07
Orange ..	..	..	..	..
Bathurst ..	r	54	32	0·33
Mt Victoria	r	47	34	0
Forbes ..	p	46	46	0
SYDNEY ..	r	56	49	1·63
Wentw'th.	b	58	31	0
Young ..	c	59	40	0
Wolfgong	r	57	48	0
Moss Vale	..	..	..	..
Euston ..	b	59	36	0
Goulburn	p	54	29	0·26
Wagga ..	u	51	39	0
Cape Geo.	r	55	50	0·08
Queanb[illegible]	g	57	30	0
Deniliquin	b	58	32	0
Albury ..	n	60	29	0
Bodalla ..	g	65	37	0
Cooma ..	o	51	24	0
Eden	c	53	42	0
Gabo Isld	g	55	43	0



WEATHER MAP.

25 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min.	Rain
Tenterfield	b	56	30	0
Grafton	b	76	46	0
Inverell	b	66	37	0·37
Bourke	c	60	43	0
Narran	b	58	45	0·05
Armidale	b	52	40	0·05
Gunnedah	b	60	41	0·32
Tamworth	..	..	..	..
P. Macquarie	..	..	..	..
Murrumbidgee	b	52	3	0·45
Cassilis	f	52	37	0
Mudbrook	b	58	37	0·60
Dubbo	b	58	41	0·25
Mudgee	b	72	35	0·05
Maitland	g	58	47	0·70
Newcastle	g	58	45	0·03
Orange	b	47	30	0·22
Bathurst	b	45	29	0·32
Mt Victoria	n	42	28	0·60
Forbes	b	63	48	0
Sydney	n	54	44	0·83
Wentworth	n	57	30	0
Young	b	61	29	0
Wollongong	b	56	45	0
Moss Vale	..	..	..	..
Euston	o	57	27	0
Goulburn	o	45	25	0
Wagga	n	58	32	0
Cape Geo.	c	53	49	0·65
Queanbeyan	b	56	26	0
Deniliquin	n	53	28	0
Albury	n	59	26	0
Rodalla	b	38	29	0
Cooma	n	45	25	0
Eden	c	54	44	0
Gabo Island	g	53	45	0

PD

— 29·35 R 73

W — E

S

16 29·90 F 55.

For example, *reads*: Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41" LONG. 10h 4m 46s. MAG. VAR. 9° 25' 2" E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 25 June .....28·584.

EXPLANATION—R, Rockhampton B Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light breze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90 .	Hurricane

STATE of WEATHER

b—Blue sky
c—Detached clouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

R No report

AS 3 30·14 R 42 Frost

L Torrens

14 30·41—52 BO

FINE—CALM GENERALLY

W 14 30 42 R 35

3 30·43 R 46 A 0 30·41 R 3½ D

14 30·18 R 33 AA

CR 1330·39 R

P M

GO 6 30·06 R 47 WP

B 3 30·10 R 56

C 28 30·06 R 51

P M 56 30·06—60

6 30·13 R 50

12 30·19 R 46

42 30·16 R 51

14 30·16 R 51

Foggy

Frost

Bar. has risen about ·20

WEATHER MAP.

26 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

PD

Stations.	Weather.	Max.	Min.	Rain.
[illegible]	b	56	29	0
Gladstone ..	b	70	43	0
Liverpool ..	b	62	29	0
Bourke ..	..	..	..	..
Narrabri ..	b	60	35	0
Armidale ..	n	50	30	0
Gunnedah ..	..	..	..	..
Tamworth ..	..	..	..	..
P. Macquarie	b	61	40	0
Murrumbidgee	b	61	30	0
Cassilis ..	b	58	30	0
Mudgee ..	b	62	35	0
Dubbo ..	f	51	37	0
Mudgee ..	n	62	31	0
Maitland ..	b	56	37	0
Newcastle ..	b	59	44	0
Orange ..	b	48	26	0
Bathurst ..	f	56	26	0
Mt Victoria ..	..	..	..	..
Forbes ..	b	59	32	0
SYDNEY ..	b	55	40	0·01
Wentworth ..	g	56	28	0
Young ..	b	52	25	0
Wollongong ..	b	54	43	0
Moss Vale ..	..	..	..	..
Euston ..	u	54	37	0
Goulburn ..	b	51	27	0
Wagga ..	n	54	33	0
Cape Geo. ..	c	53	42	0
Queanbeyan ..	g	50	28	0
Deniliquin ..	g	50	29	0
Albury ..	n	56	24	0
Bodalla ..	..	..	..	..
Cooma ..	n	56	18	0
Eden ..	b	55	44	0
Gabo Isld.	c	54	46	0

13 29·97 R 73

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4 m 15s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 26 June .....28·595.

EXPLANATION.—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E. Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light breze	b—Blue sky
23..	Mod. breeze	c—Detached clouds
34..	Fresh ,,	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90 ..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Threatening
		v—Air very clear

R No report

AS 0 30·10 F 40

L Torrens

B 3 30·26 R 53

G 28 30·22 R 49

Frost

Foggy

No report BO

FINE—CALM GENERALLY

PM 28 30·18 R 46

N 4 30·23 R 49

W 14 30·44 R 43

E 5 30·26 R 42

Frost

8 30·41 F 47 A 0 30·34 F 41 D

0 30·24 F 32 AA

SHOWERS

CB 18 30·35 F

C 28 30·27 R 47

8 30·30 F 41 M

0 29·92 F 49 P

E 14 30·20 R 43

Bar. has risen about .10

GO 5 30·09 R 49

13 30·27 F 47

18 30·06 S 49 WP

WEATHER MAP.

27 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max.	Min	Rain
Tenterfield	b	50	33	0
Grafton ..	b	77	38	0
Inverell ..	b	51	25	0
Bourke ..	b	60	36	0
Narrabri ..	n	60	33	0
Armidale .	n	52	30	0
Gunnedah	n	66	27	0
Tamworth ..	..	..	..	..
P. Macquarie	b	61	39	0
Murr'undi	b	50	33	0
Cassilis ..	b	57	26	0
Muswellbrook	b	59	34	0
Dubbo ..	b	57	37	0
Mudgee ..	n	65	29	0
Maitland ..	b	55	40	0
Newcastle	b	60	47	0
Orange ..	n	46	27	0
Bathurst ..	g	54	27	0
Mt Victoria	b	47	27	..
Forbes ..	b	58	29	0
SYDNEY ..	n	56	39	0·01
Wentw'th.	n	54	32	0
Young ..	c	49	30	0
Wollongong	b	61	42	0
Moss Vale	..	..	..	..
Euston ..	b	56	35	0
Goulburn	c	54	33	0
Wagga ..	n	..	..	..
Cape Geo.	c	52	10	0
Queanbean	n	42	26	0
Deniliquin	g	49	38	0
Albury ..	g	54	29	0
Bodalla ..	o	64	34	0
Cooma ..	n	52	24	0
Eden	c	56	42	0
Gabo Isld.	c	55	46	0

PD

Q 8 29·92 F 76

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51′ 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Faht. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 27 June .....28·604.

EXPLANATION—R, Rockhampton; B, Brisbane; G, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W, Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining, wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.	STATE of WEATHER
13..	Light brze	b—Blue sky
23..	Mod. breeze	c—Detachedclouds
34..	Fresh „	d—Drizzling rain
48..	Gale	f—Fog
56..	Strong gale	g—Gloomy, dark
65..	Whole gale	h—Hail
75..	Storm	l—Lightning
90..	Hurricane	m—Misty, hazy
		n—Frost
		o—Overcast
		p—Passing showers
		q—Squally
		r—Rain
		s—Snow
		t—Thunder
		u—Thickening
		v—Air very clear

AS 0 30·10 S 42

R No report

L. Torrens

has fallen generally about ·10

Bar.

Frost

B 3 30·23 F 51

G 28 30·19 F 46

9 30·45 — 39 80

FINE—CALM GENERALLY

P 14 30·06 F 46

frost

W 0 30·36 F 38

N 8 30·13 F 49

Foggy

Frost

S 7 30·16 F 41

8 30·34 F 44

A 14 30·37 R 41 D

0 29·83 F 42 A

C 42 30·11 F 43

CB 13 30·30 F

13 30·19 F 45 M

18 30·23 F 48 P

E 14 30·09 F 44

SMOOTH SEA

SHOWERY

13 30·17 F 48

GO 28 30·07 F 47

23 29·96 F 47 WP

WEATHER MAP.

28 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	Weather.	Max	Min	Rain.
Tenterfield	b	55	33	0
Grafton ..	c	72	40	0
Inverell ..	b	51	25	0
Bourke ..	c	59	39	0
Narrabri ..	b	58	31	0
Armidale .	n	51	28	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	62	38	0
Murr'undi	b	49	29	0
Cassilis ..	b	57	26	0
Mus'brook	b	55	33	0
Dubbo ..	n	56	34	0
Mudgee ..	n	65	29	0
Maitland ..	b	53	39	0
Newcastle	b	57	43	0
Orange ..	g	38	30	0·02
Bathurst ..	c	41	32	0
Mt Victoria	n	39	29	0
Forbes ..	c	61	35	0
SYDNEY ..	c	53	40	0
Wentw'th.	g	59	35	0
Young ..	g	45	31	0
Wollgong	b	54	42	0
Moss Vale	..	..	..	..
Euston ..	r	55	32	0
Goulburn	b	40	31	0
Wagga ..	n	..	..	..
Cape Geo.	b	50	42	0
Queanbean	n	46	27	0
Deniliquin	g	51	33	0·07
Albury ..	g	47	32	0·10
Bodalla ..	n	57	24	0
Cooma ..	n	44	15	0
Eden ..	b	56	42	0
Gabo Isld.	c	55	46	0

PD

13 29·89 F 77

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

SYDNEY OBSERVATORY.

LAT. 33° 51 41″ LONG. 10h 4m 46s. MAG. VAR. 9° 25′ 2″ E.

Time-ball drops at 1h p.m. or 2h 55m 14s a.m. Greenwich M. T.

Barometers corrected to 32° Fahr. and to Mean Sea Level.

Average Annual Rainfall of the preceding 19 Years..52·085.

Average of previous 19 Years, for June .....5·519.

Total Rainfall from 1 Jan to 28 June .....28·604.

EXPLANATION—R, Rockhampton; B, Brisbane; C, Clarence Riv.; PM, Port Macquarie; N, Newcastle; S, Sydney; C, Cape St. George E, Eden; GO, Gabo; WP, Wilson's Promty; O, Cape Otway; M, Melbourne; AA, Albury; D, Deniliquin; W. Wentworth; BO, Bourke; P, Portland; CB, Cape Borda; A, Adelaide; AS, Alice Springs; PD, Port Darwin.

Fine, wind N. Cloudy, wind E. T.-storm, wind S. Raining. wind W.

If it is *Calm*, the symbol is used without the arrow.

light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

Miles	WIND SCALE.
13..	Light brze
23..	Mod. breeze
34..	Fresh ,,
48..	Gale
56..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
c—Detachedclouds
d—Drizzling rain
f—Fog
g—Gloomy, dark
h—Hail
l—Lightning
m—Misty, hazy
n—Frost
o—Overcast
p—Passing showers
q—Squally
r—Rain
s—Snow
t—Thunder
u—Threatening
v—Air very clear

AS 0 30·00 F 40 frost

L Torrens

28 30·44 F 40 BO

FINE GENERALLY

W 14 30 28 F 44

8 30·26 F 45 A

0 30·27 F 39 D

0 30·12 R 42 A

CB 18 30·18 F

23 30·06 F 47 P

18 30·06 F 48 M

34 29·96 F 46

40 29·72 F 46 WP

Bar. has fallen about ·20

SHOWERY

SHOWERY

R No report

B 3 30·14 F 51

G 28 30·08 F 46

PM 14 30·06 S 42

N 6 30·08 F 47

9 30·09 F 44

C 28 30·00 F 46

E 14 29·91 F 44

GO 28 30·07 S 47

Frost

Frost

SMOOTH SEA

WEATHER MAP.

29 JUNE, 1878.—9 A.M.

COMPILED FROM TELEGRAMS,

BY H. C. RUSSELL,

GOVERNMENT ASTRONOMER.

Stations.	W'ther.	Max	Min	Rain.
Tentern'lo	..	..	..	..
Grafton ..	b	59	37	0
Inverell ..	b	38	20	0
Bourke ..	d	57	52	0
Narrabri..	n	55	54	0
Armidale.	n	48	25	0
Gunnedah	..	..	..	..
Tamworth	..	..	..	..
P. Macqrie	b	55	37	0
Murr'undi	b	47	28	0
Cassilis ..	..	..	..	..
Mus'brook	b	53	32	0
Dubbo ..	n	48	34	0
Mudgee ..	n	48	37	0
Maitland..	b	54	40	0
Newcastle	b	58	44	0
Orange ..	o	48	26	0·02
Bathurst..	o	41	30	0
Mt Victoria ..	..	..	..	..
Forbes ..	o	57	30	0
SYDNEY ..	b	55	45	0
Wentw'th.	b	58	28	0
Young ..	g	47	36	0
Wol'gong	b	54	45	0
Moss Vale	..	..	..	..
Euston ..	n	55	26	0
Goulburn	b	45	33	0
Wagga ..	g	64	33	0
Cape Geo.	b	53	44	0
Queanb'an	b	48	30	0
Deniliquin	g	52	33	0
Albury ..	g	51	39	0·05
Bodalla ..	n	46	25	0
Cooma ..	n	52	24	0
Eden	b	57	49	0
Gabo Isld.	b	57	45	0

PD

13 29·93 R 78

16 29·90 F 55.

For example, *reads:* Fine, wind North, 16 miles per hour; Bar. 29·90, falling; temperature 55.

W — E

S

GULF OF CARPENTARIA.

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light; fresh; gale; strong gale.

sea moderate; heavy; very heavy.

AS 0 29·98 F 52

L Torrens

0 30·41 F 38 BO

FINE GENERALLY

W 14 30 29 R 35

13 30·18 F 46 A

0 30·34 R 46 D

0 30·17 R 46 AA

CB 28 30·05 F

18 30·09 R 50

P

13 30·15 R 49 M

rain

23 30·06 R 49

GO 6 29·90 R 54

34 29·88 R 49 WP

SHOWERY

E 28 29·98 R 54

C 28 30·09 R 48

S 11 30·15 R 47

N 9 30·21 R 47

PM 14 30·20 R 45

G 28 30·19 R 44

B No report

R No report

Frost

Frost

Bar. has risen about .10

SMOOTH SEA

Wind Scale.

Miles	
13..	Light brze
23..	Mod. breeze
34..	Fresh „
48..	Gale
156..	Strong gale
65..	Whole gale
75..	Storm
90..	Hurricane

STATE of WEATHER

b—Blue sky
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s—Snow
t—Thunder
u—Threatening
v—Air very clear

NOAA CENTRAL LIBRAY
3 8398 1009 3954 9